



ANNUAL REPORT

GOG

EL12/2001

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MANAGER & OPERATOR: Auriongold Exploration

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PROSPECTS: Firetower Prospect, West Gog

MAP SHEETS:	1:250,000:	1:100,000: Mersy
GEOGRAPHIC COORDS:	Min East: 442000	Max East: 464000
	Max North: 5404000	Max North: 5407000
COMMODITY(s):	GOLD, COPPER	

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SUMMARY

Auriongold Explorations target for the northern Mt read Volcanics is a 50MT stockwork style Au or intrusive Cu-Au deposit. EL 12/2001 Gog hosts the Firetower prospect, an epigenetic stock work veined Au deposit with a W, As, Cu and minor Pb, Zn association. It is hosted in intensely carbonate-sericite altered volcanoclastics and is possibly related to nearby quartz-feldspar-biotite porphyry intrusions.

Drilling during the past year has extended the prospect over a strike length of 400m. It has been closed off to the east but remains open to the west for at least a further 200m. Drilling suggests continuity of higher grade mineralisation between drillholes in the core of the prospect. An inferred resource of contained ounces was calculated to be only 3.6 Mt @ 0.8 g/t Au (90,000 oz). The Firetower prospect is not of sufficient size to warrant further work at this stage.

Other work completed during the year included tenement wide 1:5000 mapping, rock chip sampling, stream sediment sampling, a gradient array IP survey, ground magnetics, gridding and C-horizon soil sampling.

Reconnaissance mapping and stream sediment sampling has identified two other areas worthy of follow up, the west Gog area and a stream draining the Gog Range east of the Noranda Grid. The first of these, the West Gog area was subsequently gridded, soil sampled mapped and rock chip sampled. Numerous gossans, ironstones and bleached and veined volcanics were mapped. Extensive though low grade Au-As and basemetal soil and rock chip anomalies (Cu to 3.3%) are present and require follow-up rock chipping and possibly drilling or trenching. The anomalies remain open to the north and east. The grid should be extended to test these areas further.

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INTRODUCTION

EL12/2001 Gog is located in the north of Tasmania at the Gog Range, between Sheffield and Mole Creek (Figure 1). Although the terrain is steep, the prospect is easily accessed from major roadways and old forestry roads. The prospect area consists of State Forest managed by Forestry Tasmania, the Gog Range Conservation Area, Forests Managed by Prescription and several small ML's over road metal quarries. Exploration activity within the Conservation Area and Forests Managed by Prescription area need to be approved by the Mineral Exploration Working Group (MEWG) prior to commencing activities. Vegetation consists of both wet and dry sclerophyll forest, rainforest, dense regrowth of previously disturbed ground and forestry plantations.

EL12/01 was awarded to Goldfields Exploration after successfully tendering through Mineral Resources Tasmania tender process. The ETA (ETA540) resulted from the revocation of former EL25/98 from Sirocco Resources NL.

An application was lodged for an additional 13 km² to be added to the EL, extending eastwards along prospective Cambrian volcanic rocks.

This report summarises exploration activities completed during the first year of tenure and outlines recommendations for future work.

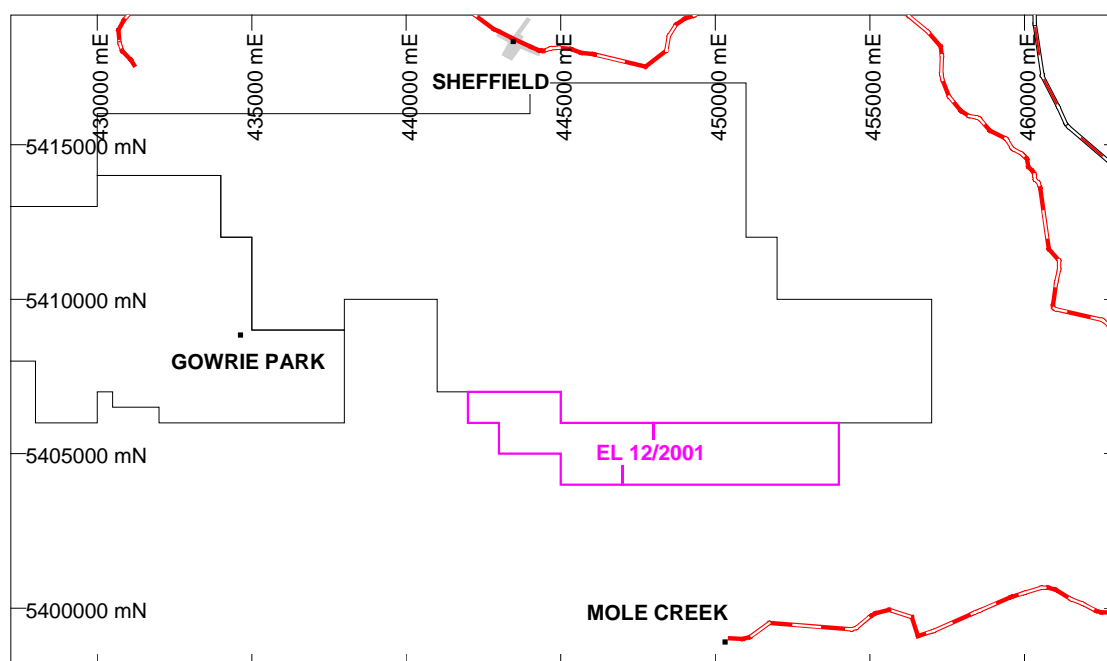


Figure 1. Location EL 12/2001

2 REGIONAL GEOLOGY

The Gog EL is hosted in the Fossey Mountain Trough, an E-W subsidiary trough of the N-S trending Dundas Trough. The eastern margin of the Dundas Trough contains the Cambrian Mt Read Volcanics, overlain by unconformable to disconformable Cambro-Ordovician siliciclastics and limestones. The Mt Read Volcanics are highly mineralised hosting major polymetallic VHMS deposits such as Hellyer and Rosebery and volcanogenic copper-gold deposits such as Mt Lyell and the high grade Henty Gold Mine.

The Fossey Mountain Trough is comprised of similar Cambrian Volcanics and overlying Cambro-Ordovician siliciclastics as the Dundas Trough. The stratigraphy of the Fossey Mountain Trough is poorly known and many stratigraphic relationships are conjectural. No attempt has been made to correlate units from the Gog Range area with the rest of the Mt Read Volcanics. Much of the stratigraphic nomenclature remains from the original 1 inch to 1 mile Mines Department mapping (Jennings et al, 1959 and Jennings, 1979). Mineral Resources Tasmania have recently released a 1:25 000 geological map covering the Gog

Range district. Mapping of the region is ongoing with the Sheffield sheet incomplete and stratigraphic relationships undergoing verification by Mineral Resources Tasmania.

Previously the Cambrian volcanics of the district had been assigned by Jennings et al (1959, 1979) to three mappable units from oldest to youngest:

- 1) Beulah Formation
- 2) Gog Range Greywacke
- 3) Minnow Keratophyre.

Recent work by Mineral Resources Tasmania (Corbett, *pers com*) suggests there may be two separate episodes of andesitic volcanism. This interpretation suggests there are four Cambrian volcanic episodes consisting of from oldest to youngest:

- 1) Beulah Formation
- 2) Gog Range Greywacke
- 3) Dasher River Andesite
- 4) Minnow Keratophyre

However this view is not universal with some conflicting field evidence leading some workers to consider the Beulah Formation overlying the Gog Range greywacke (eg. Rand and Noonan, 1989). This interpretation simplifies the geology back to the three formations of Jennings (1979) but the andesitic volcanics form the youngest rather than the oldest formation.

The oldest outcropping rocks recorded in the district belong to the Barrington Chert, consisting of pure, finely laminated to brecciated black, red and grey chert (Jennings 1979). The chert is considered to be sedimentary in origin and is interbedded with some greywacke and chert conglomerate units.

Basaltic lavas and volcanoclastics have been recorded in a number of localities underlying or near the base of the Gog Range Greywacke, including the Motton Spilite (Jennings 1979) and the Magog Basalt (McCleneghan *et al* 2001, Herrmann, 1991). The Motton Spilite occurs as a massive, dark green, fine grained chloritised rock composed of fine albite and augite/chlorite interbedded with chert breccia and volcanoclastics (Jennings 1979).

Conformably overlying the Barrington chert is the Gog Range Greywacke, a 600m thick sequence of mixed siliciclastic and volcanoclastic rocks. The basal member is typically conglomeratic with rounded clasts of chert and quartzite interbedded with argillaceous and vitric siltstones, grading up into greywackes and siltstones. Jennings (1979) notes that the acid volcanic content increases up sequence towards the overlying Minnow Keratophyre. Sparse fossils obtained from the Gog Range Greywacke date it as late Middle Cambrian (Banks 1962).

Overlying the Gog Range Greywacke are the andesitic volcanics of the Beulah Formation. Recent field visits tend to suggest this interpretation although the southern boundary of the Beulah Formation with the Gog Range Greywacke is unclear. Andesitic lavas, lava breccias and associated volcanoclastics outcrop poorly in the lower Beulah area. The lavas are commonly massive to vesicular feldspar-augite pyric rocks commonly with chlorite altered ferromagnesian minerals (Jennings 1979, Vicary and Jackson, 1993). Jennings (1979) noted that the Andesites outcropping north of the Dasher River are similar in appearance. These have been termed the Dasher River Andesites (Corbett, *pers com*) and demonstrably overlie the Gog Range Greywacke.

Also overlying the Gog Range Greywacke immediately north of the Gog Range is the Minnow Keratophyre. The Minnow Keratophyre forms the core of a large east west trending syncline. It is a generally massive unit of quartz-feldspar porphyry with a fine-grained matrix. Quartz and feldspar phenocrysts are generally large (>4mm) comprising 5-10% of the rock. Zircon U-Pb dating of the Minnow Keratophyre yields an age of 499.6 ± 5.6 Ma (McCleneghan et al, 2001).

The last known Cambrian igneous event involved the intrusion of stocks of diorite and monzodiorite. The intrusives are typically plagioclase-amphibole-minor quartz diorites, quartz-gabbro norites and biotite-hornblende-quartz monzodiorite (McClenaghan *et al* 2001). The 'Beulah granite' (monzodiorite) gives a zircon U-Pb radiometric date of 493.5 +/- 3.9 Ma (McClenaghan *et al* 2001).

The Cambrian volcanics and sediments are unconformably overlain by late Cambrian to early Ordovician Gordon Group consisting of siliciclastics of the Roland Conglomerate and Moina Sandstone overlain by the Gordon Limestone (Jennings 1958). The Roland Conglomerate is a white to pink pebble-cobble conglomerate while the overlying Moina Sandstone is a pink to white, fine to medium grained quartz sandstone. Basal conglomerates of mixed siliciclastic-volcaniclastic derivation are locally present, particularly at the andesite-conglomerate contact in the Beulah area.

The Mt Read Volcanic-Gordon Group contact at the Gog Range suggests there was a significant tectonic event, involving overturned to recumbent folding of the southern margin of the volcanics followed by significant uplift and erosion prior to deposition of the Gordon Group. This is evident in a reversal of facing between the Gog Range Greywacke and the unconformably overlying Roland Conglomerate (see Figure 2).

The next major deformation event during the Devonian resulted in widespread folding and faulting with numerous reverse and thrust faults. Post orogenic granitoids intruded the sequence, with the Dalcoath granite outcropping 10-15 km to the west of the Gog EL.

Post orogenic sediments including Permian conglomerates, Jurassic dolerite, Tertiary basalts and sediments and recent Quaternary deposits overly the deformed Cambrian and Ordovician sequences.

Table 1. Pre-Devonian Stratigraphic Summary of Gog Range district.

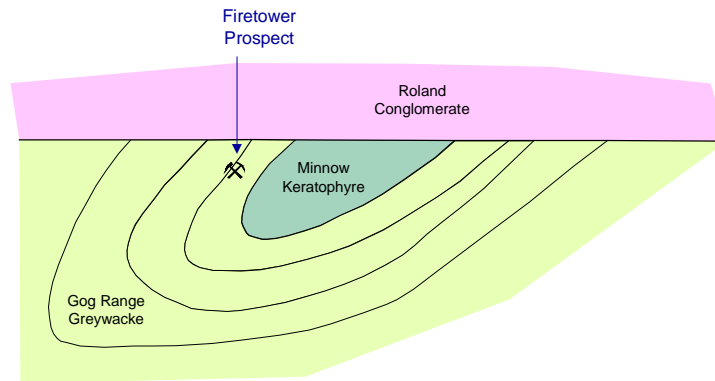
Gordon Group	Gordon Limestone	Ordovician shallow marine to intratidal limestone.
	Moina Sandstone	Grey to pink, medium grained quartz sandstone.
	Roland Conglomerate	Grey, cobble to pebble siliciclastic conglomerate.
Mt Read Volcanics	Beulah Formation	Andesite lava, intrusive and volcaniclastics with associated diorite intrusions.
	Minnow Keratophyre	Quartz-feldspar porphyritic lava and intrusives
	Gog Range Greywacke	Chloritised quartz-feldspar crystal-pumiceous volcaniclastic breccias, polymict volcaniclastic/siliciclastic breccias. Rhyolitic volcaniclastic sandstones, pumice breccias, vitric siltstones and quartz-feldspar-biotite phyric lavas and intrusives. Polymict volcaniclastic/siliciclastic conglomerates, volcaniclastic sandstones and siliclastic sandstones and argillites.
Crimson Creek Formation?	Motton Spillite?	Massive, fine grained basaltic lava.
Barrington Chert		Laminated to brecciated, black, red and grey chert.

3 PREVIOUS WORK

Former EL 7/73 totalling 743 km² covering the majority of the Mt Read Volcanics in the Fossey Mountain Trough was first explored by Asarco Australia Pty. Ltd. in 1973. Asarco's

initial work program involved regional 80# stream sediment sampling and reconnaissance

Late Cambrian



Recent

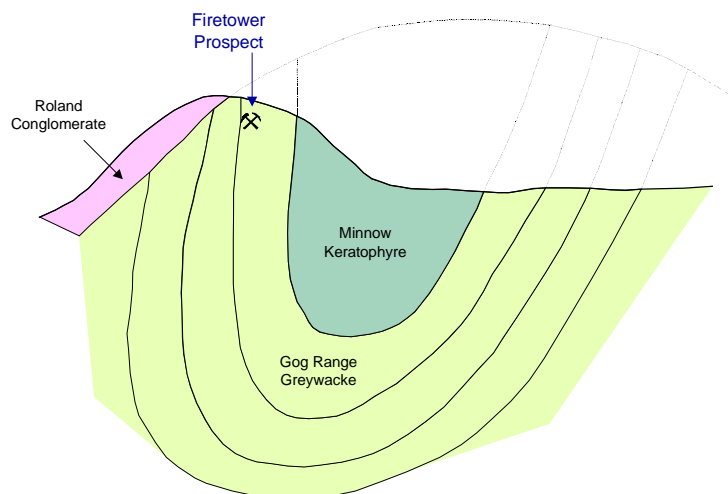


Figure 2. Structural setting of Gog district.

mapping. The tenement was reduced to 440 km² after target definition from the initial program.

CRAE became operators of the tenement after entering into joint venture with Asarco in 1976 and also picked up the relinquished portion of the former EL 7/73. They initiated ground surveys of the previously identified targets including gridding, mapping, soil and rock chip sampling and geophysical surveying (gradient array IP, dipole-dipole IP, magnetics, self potential and VLF-EM). Targets tested included Lake Barrington, Promised Land, Staverton, Stonebridge, Beulah Barite, Cethana (East and West), Gog Range and the Cethana Picnic Ground. Encouraging results for the Cethana (East and West), Lake Barrington, Staverton and Gog Range grids led to detailed dipole-dipole IP, Genie EM, PEM, UTEM and Dighem surveys. Fourteen diamond holes and three percussion holes were also completed, twelve of these on the Cethana prospect, four on the Lake Barrington prospect and one at Staverton.

Asarco and CRAE's main focus was volcanogenic basemetal mineralisation, consequently very few gold analyses were made until late in the period of tenure. A sparse program of Bulk Cyanide Leach and -80# sampling was implemented in an attempt to detect fine volcanogenic gold mineralisation. Interestingly only four panned concentrate samples were taken. Significant results were returned, particularly one pancon from the Gog Range which returned 320ppm Au and 389 ppm W (Weber, 1984). A recommendation for a trenching program at the Gog grid was made but not implemented. The EL was relinquished in 1988.

Noranda acquired EL 10/88 in 1989, later relinquishing some of the EL to divide it into two portions, one known as Lake Barrington, the other as Gog Range. Noranda immediately followed up the anomalous stream sediment results from the Gog grid, identifying the Firetower Prospect from rock chip and channel sampling results (Jones 1989). Noranda completed a regional review of CRAE's work as well as detailed work on the Cethana and Gog Range Prospects. Their work on the Gog Range prospect included C-horizon soil sampling, mapping and rock chip sampling. In the following years a total of 17 short diamond holes were completed with a man portable diamond drill rig, as well as a dipole-dipole IP survey, petrographic work and detailed mapping and sampling. Highly significant gold results were returned with channel samples of 11m @ 4.9 g/t Au with significant W, Co and basemetal values. Best drill intercepts included 17m @ 5.37 g/t from diamond hole GP-90-10.

Noranda pulled out of Tasmania in 1990, joint venturing the tenement to Plutonic Operations Ltd. Plutonic took over management of the tenement entirely in 1992 whilst Noranda maintained a 10% royalty. Plutonic completed a further 4 deeper diamond drillholes on the Firetower prospect as well as further work on the Cethana, Lake Barrington and Staverton prospects.

Plutonic later relinquished EL 10/88 which was subsequently picked up by Sirrocco Resources NL as EL 25/98 through Mineral Resources Tasmania's Exploration Tender process in 1998. After failing to meet expenditure commitments and completing minimal work Sirrocco were forced to relinquish the EL in 2000.

The far eastern part of the current EL12/2001 was held by Amax minerals as EL 49/82 and later by Autokumpu as EL16/90. These companies completed mapping and BLEG and 80# regional stream programs on the portion of their EL's now covered by EL12/2001.

4 WORK COMPLETED

Work completed by Auriongold (formerly Goldfields) during the past year included geological mapping, rock chip sampling, gridding, diamond drilling, stream sediment geochemistry, C-horizon soil sampling, gradient array IP and ground magnetic surveys.

4.1 Geological Mapping

The Gog EL was mapped at 1:5000 scale with detailed 1:1000 mapping of the Firetower Prospect. Outcrop and geological interpretation maps are located in Enclosures 1 to 3. Diamond, drill core, MRT aeromagnetism, MRT 1:25000 scale mapping, previous thin section descriptions (Jones, 1989) and litho-geochemistry were used in the following interpretations and descriptions.

4.1.1 Stratigraphy

The Cambrian rocks of the Gog EL are located on the southern limb of a large syncline with bedding striking generally east west with approximately vertical dips. Stratigraphy youngs northwards on the EL. The EL represents an approximate stratigraphic section through the Gog Range Greywacke and the Minnow Keratophyre. Stratigraphic units represented on the EL include the Gog Range Greywacke, Minnow Keratophyre and Gordon Group with associated Cambrian intrusives. Relationships between units in the Gog Range Greywacke show lateral facies variations and interpreted synvolcanic growth faulting, disrupted by later

intrusives. Regionally several mappable volcanic successions are recognised and at the prospect scale individual units can be mapped out (Enclosure 3). A stratigraphic column is included in Table 1 and on Enclosures 1-3.

Union Bridge Basalt

The lowermost Cambrian unit on the Gog EL is a small outcrop of massive, jointed, dark brown to orange weathered 'basalt' outcropping on the Union Bridge road. This unit is composed of very fine grained chlorite and iron oxides after chlorite in what has been interpreted as a Cambrian basalt. The unit is a possible correlate of the Magog basalt (McClenaghan, et al 2001) located several kilometres east of this outcrop or the Motton Spillite located in a similar stratigraphic position to the NW (Jennings, 1979). Unlike the Lobster Creek basalt, the Union Bridge Road basalt does not have a strong magnetic signature, possibly due to alteration and weathering.

Gog Range Greywacke

The Gog Range Greywacke can be subdivided into three broad stratigraphic units:

- a lowermost unit of mixed silicilastics and volcanoclastics,
- a central unit dominated by crystal-lithic sandstones and vitric siltstones of rhyolitic derivation
- an upper unit dominated by polymict volcanoclastics and pumiceous breccias of mixed rhyolitic and andesitic composition with exotic clasts of rounded siliciclastics.

The lower unit outcrops on the Union Bridge road immediately overlying the Union Bridge basalt. The unit is comprised of well bedded, jointed, polymict conglomerate with cobble sized, rounded siliciclastics and chert derived from the Precambrian basement, rhyolitic volcanoclastic clasts, quartz crystals and intraclasts of siltstone. These conglomerates are interbedded with coarse-grained (3-6mm) quartz crystal volcanoclastic sandstone and siltstones.

Further west the lower unit is dominated by mixed siliciclastic and volcanoclastic sandstones and siltstones. McClenaghan et al. (2001) notes that the sandstones are dominated by metamorphic quartz grains of Precambrian derivation.

Overlying the basal sequence are a package of dominantly rhyolitic volcanoclastics and associated intrusives. These rocks are the host sequence for the mineralisation at the Firetower and West Gog Prospects.

In the east and centre of the tenement the sequence is dominated by massive rhyolitic ash-rich, pumice-lithic volcanoclastic breccia with graded, ashy siltstone tops. The volcanoclastics are pale cream coloured and outcrop strongly as a series of silicified bluffs to the south and east of the Firetower Prospect. Lithics include abundant recrystallised flattened and devitrified sparsely feldspar-quartz-phyric pumice clasts and rare dark grey obsidian or vitric siltstone clasts (thin section description of Tony Crawford in Jones, 1989).

Overlying these vitric rich pumiceous breccias is the host sequence of the Firetower Prospect composed of interbedded quartz-crystal lithic volcanoclastic sandstones, greywackes, and laminated to diffusely bedded vitric siltstones. The volcanoclastic sandstones and greywackes are composed dominantly of quartz crystals, with lesser quartz-feldspar phyric rhyolite lithics and siltstone intra-clasts in a matrix of devitrified volcanic glass. Bedding appears to be inconsistent with more siltstones to the east than west, possibly as a result of erosion during subsequent mass flows. Stratigraphic variations across a number of faults at the Firetower Prospect suggest these faults were active during deposition of the volcanic succession.

The uppermost rhyolitic unit at the Firetower Prospect is a quartz-pumice lithic volcanoclastic sandstone. The sandstone is composed of mainly quartz crystals with 2-10mm flattened quartz-phyric pumice clasts in a vitric rich matrix. Flattened pumice lithics to 100mm are not uncommon.

Overlying the rhyolitic volcanoclastics at the Firetower prospect is a distinctive sequence of laminated, graded psammitic felspathic sandstones and siltstones with some black siltstone units. Bedding varies between fine lamination to 10-2-mm scale graded beds. This unit is often chloritic and extends over a thickness of approximately 10m true width.

In the east of the EL the rhyolitic unit is dominated by vitric siltstones with minor quartz-crystal lithic sandstone. Outcrop is fairly poor with the unit covered by talus deposits on steep north facing hillsides.

In the West Gog area the rhyolitic volcanics are dominated by a thick sequence of diffusely bedded pale cream vitric siltstone with lesser quartz-crystal and quartz-crystal-pumice-lithic volcanoclastic sandstone.

Associated with the rhyolitic volcanoclastic sandstone sequence are a series of quartz-plagioclase-biotite porphyritic lavas, intrusives and domes. Quartz (1-3mm) and feldspar (1-2mm) comprise 5% of the rock mass with biotite (1-2mm) comprising up to 10% in a fine grained glassy matrix. These porphyries appear to be spatially associated with mineralisation and are frequently sericite-silica carbonate pyrite altered. Biotite is poorly preserved in the altered porphyries and feldspars are replaced by pale green sericite. They are finer grained, have higher biotite contents and a higher Ti/Zr (10-14) than the overlying Minnow Keratophyre.

The upper unit is dominantly a thick sequence of strongly chlorite altered quartz-feldspar-crystal, pumice-lithic breccia with interbedded polymict volcanoclastic/siliciclastic mass-flow breccias. The polymict units and intensely chloritised devitrified groundmass and chlorite clasts are a diagnostic feature of the unit. These units, although dominated by rhyolitic to rhyodacitic quartz-phyric pumice breccias also contain clasts of rounded Precambrian derived silicastics, dacite, andesite and notably carbonate and jasper.

Minnow Keratophyre

Intruding into and overlying the Gog Range is a massive coherent feldspar-quartz phyric lava. The unit is variably pink to brown and contains large, euhedral feldspar phenocrysts and partially resorbed quartz phenocrysts to 5mm in a uniform devitrified matrix. Minor mafic minerals are present as aggregates of chlorite and sphene after Fe-Ti oxides. This unit is distinctly different in appearance from the quartz-feldspar-biotite porphyritic lava located within the rhyolitic volcanic package of the Gog Range Greywacke and has a much lower Ti/Zr ratio of around 5.

Diorite

There are two small intrusions of diorite on the Gog EL (see Enclosures 1 and 2). The eastern diorite outcropping in the Gregory's Road area is a phaneritic diorite intrusive composed of 1-4mm prisms of plagioclase and augite with minor quartz. Mafic phenocrysts are variably chloritised. A small body of similar diorite was mapped in the west of the EL.

The eastern diorite forms a long, narrow body intruding the Minnow Keratophyre and Gog Range Graywacke. The western diorite intrudes the Gog Range greywacke in a similar position.

Tony Crawford (in Herrmann, 1991) suggests the diorites are genetically related to the andesites and may represent shallow magma chambers below the extrusive andesites.

4.1.2 Structure

The Cambrian lithologies within the Gog Range EL generally strike east west, are steeply dipping to overturned and north facing forming the southern limb of a large scale, gently west plunging syncline located 1km north of the EL boundary. The shallow south dip and southerly facing Gordon Group unconformably overlying the Cambrian sequence implies a major deformation event and subsequent uplift and erosion of the Cambrian rocks prior to

deposition of the Gordon Group as discussed in section 2 (see figure 2). Post Gordon Group deformation during the Devonian Tabberabberan Orogeny resulted in tightening of the earlier Cambrian folds with synchronous broad scale open folding of the Gordon Group. Despite these two deformation events the rocks have not developed a strong foliation evident in hand specimen.

A major offset in stratigraphy is apparent just west of the Union Bridge Road with an inferred N-S striking dextral strike slip fault displacing the stratigraphic sequence by approximately 1km. This fault is complicated by a major NE-SW striking fault outcropping in a road metal quarry in the west of the EL. Outcrop and drill intersections around the Firetower Prospect allow interpretation of similar, though smaller scale N and NW striking faults. Stratigraphic and volcanic facies variations around these faults suggest they may have been active during deposition of the volcanic succession. These structures have been reactivated as late brittle faults during subsequent deformation.

Numerous bedding sub parallel brittle faults with small displacements are evident in most outcrops. Larger E-W striking moderate to steeply west dipping faults are associated with the mineralised zone at the West Gog Prospect.

4.1.3 Alteration and Mineralisation

Firetower Prospect

The Firetower prospect is an unusual Au stockwork type deposit with associated As, W, Co, Cu, Pb and Zn. Mineralisation at the Firetower Prospect consists of fine quartz-carbonate stockwork veining with low but variable sulphide content of between 2-5%. Vein orientations appear to be random although some spatial control is possibly related to two north trending dextral faults. The stockwork veining is hosted in intense pervasive sericite-carbonate-silica altered rhyolitic volcanoclastics.

Sulphides include pyrite, chalcopyrite, chalcocite, arsenopyrite, sphalerite and galena mostly associated with quartz-carbonate veining but also occurring as large aggregates of about 1-2cm. Chalcocite commonly lines chalcopyrite aggregates and is in turn rimmed by carbonate. Co and W are also associated with the mineralisation. Up to 0.6% W occurring as scheelite associated with carbonate veins was noted from drill core samples (Jones, 1991).

Gold grades are variable up to a maximum of 30 g/t with many 1m samples in excess of 5 g/t. The gold zone occurs over a strike length in excess of 400m and a maximum width of approximately 80m. Mineralisation remains open to the west and down dip but is likely to have a limited strike extent as the zone is not evident on the Union bridge road 400m west. Minor spot high Au mineralisation and basemetal mineralisation from soil and rock chip sampling extends east for a further 1-2km. But is of a lower order and limited size.

Although mineralisation outcrops boldly it is not obviously a gold rich hydrothermal system. Similar boldly outcropping, moderately veined silicified volcanoclastics occur south and east of the gold zone but are generally unmineralised.

Alteration varies up stratigraphy and possibly along strike. The low Au (<0.01 g/t) footwall volcanoclastics are typically bleached and silica-albite altered with minor quartz veining. The underlying quartz-plagioclase-biotite porphyry is also altered varying from moderate sericite-silica alteration with destruction of feldspars and biotite to an intensely silicified rock with 1-2% pervasive fine pyrite alteration (eg FTD10). The sericitic alteration is occasionally weakly mineralised to a maximum of 0.1g/t Au but the silica-pyrite alteration appears to be barren. The alteration and mineralisation and spatial association of these quartz-feldspar-biotite porphyries suggest they are a possible source of the Au mineralisation. Minor quartz porphyritic dykes also intrude the host sequence.

Alteration of the host sequence is characterised by intense Fe-Mn bearing carbonate and pervasive yellow to pale green sericitic alteration. Pyrite and chalcopyrite blebs of about 1-2cm associated with an increase in sericite alteration is a characteristic of the best

mineralised zones (>5g/t). The sericite-carbonate alteration decreases in intensity on the margins of the mineralised zone to a weakly bleached carbonate alteration coupled with a corresponding decrease in gold grade to about 0.1 g/t. Gradational contacts and irregular boundaries suggesting mineralisation was a later epigenetic event. Gold grade is possibly related to vein density but noticeably increases with increasing intensity of sericitic alteration. In the west of the mineralised zone in drill hole FTD11 fine chlorite after biotite alteration associated with gold mineralisation is evident. This alteration and mineralisation is associated with a quartz-porphyritic dyke suggestive of localised hornfelsing. Gold grades are typically <1 g/t for this style of alteration.

The hangingwall volcanoclastics are moderately to strongly chlorite altered. Chlorite has completely replaced formerly glassy pumice fragments and the groundmass of rhyolitic to andesitic clasts. Overprinting relationships suggest this was an early alteration phase, possibly diagenetic although it appears to be restricted to the hangingwall lithologies.

West Gog

Similar rhyolitic volcanics to those hosting the Firetower Prospect are located on the West Gog grid. The area was gridded and soil sampled on 200m lines as a preliminary follow up of anomalous stream sediment samples. Sericite-silica altered volcanics with fine quartz-limonite-hematite veining similar to the Firetower prospect was mapped on many lines, particularly in the NE of the grid and along Roland Ridge. Rock chip geochemistry and C-horizon soil sampling has delineated an extensive 800 x 300m Au-As-Cu±Pb±Zn anomaly that remains open to the north and south (Au to 0.1 g/t). Numerous gossans, iron-stones (lines 442400 and 442400E) and limonitic box-works were mapped on the ridge top and down the northern slopes. A zone of Au anomalous silica-hematite veining with malachite located at 442800E 5406850N returned assays to 3.3% Cu. Sericite-quartz-pyrite altered quartz-feldspar-biotite porphyry also intrudes the Gog Range Greywacke within the mineralised area.

A zone of intense chlorite-pyrite (5-10%) alteration outcrops on line 442600E at 5405550N. Rock chip samples were below detection Au but surrounding limonite veined volcanoclastics contained Au to 0.1 g/t.

4.2 Gridding

Grid locations are displayed in Figure 3. The recently cut Sirocco grid over the Firetower prospect was picked up by contract surveyors Peacock, Darcy and Anderson. It had a consistent error of -20m on the easting and a variable error of up to 10m on the northing.

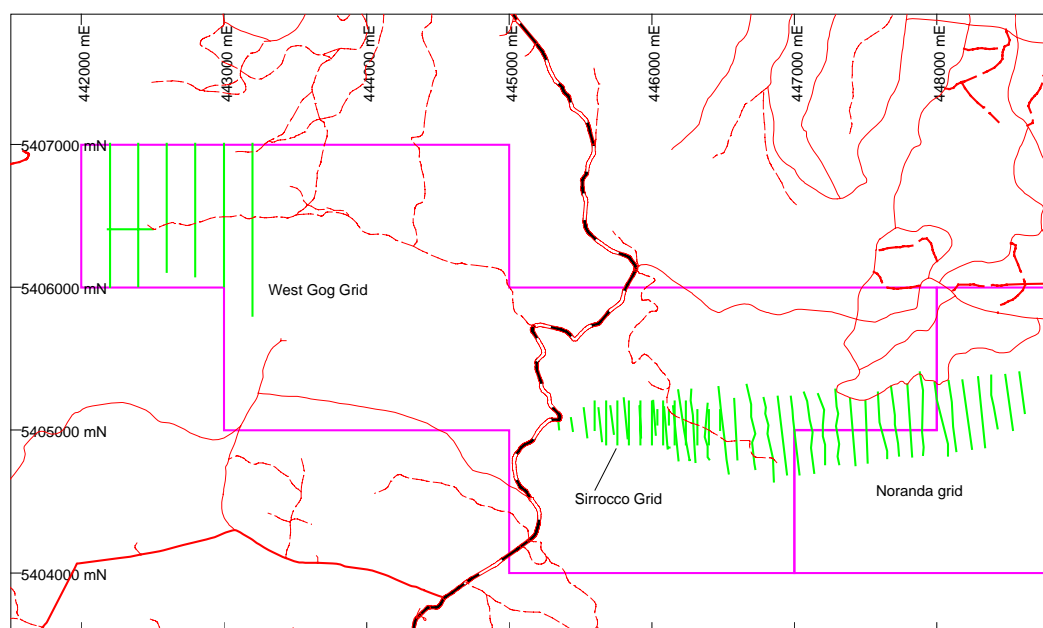


Figure 3. Grid Location Map.

Noranda Grid

Approximately 20km of the early Noranda local grid was recut. Much of the grid was in poor condition, particularly lines located in dry sclerophyll forest, some of which had been burnt. The grid was revamped to allow gradient array IP and ground magnetic surveys to be completed along strike to the east of the Firetower Prospect. The gridding was completed by Rogers Exploration Services and re-pegged with lines located by handheld GPS.

West Gog Grid

Approximately 6.25kms of 200m spaced grid lines were established in the West Gog area. The grid was cut on AMG N-S lines approximately perpendicular to the strike of stratigraphy to allow detailed follow up of anomalous stream sediment samples. The grid was cut by Rogers Exploration Services with lines located by handheld GPS.

4.3 Drilling

A further eight diamond drillholes were completed on the Firetower prospect. The aims of the drilling program were twofold:

- 1) Infill holes to test continuity of mineralised zones between previous intersections.
- 2) Extend the strike extent of the mineralised zone to the east and west.

The holes were completed by Almac Drilling Pty Ltd using a Longyear LF70 rig between November and January 2001-2002. All holes were drilled at HQ size to improve sample recovery. Drilling conditions were difficult due to steep terrain and shallow collar angles (down to 15 degrees). The steep topography restricted access to drill sites. Shallow collar angles were required to intersect the target position within 100m of the surface. Areas of core loss occurred on some of the shallower holes.

Drill logs are located in Appendix 1. A drill hole plan and prospect geology is located in Enclosure 3. Drill sections are located in Enclosures 4 to 17.

All recent and previous drill collars were surveyed by contract surveyors Peacock, Darcy and Anderson. Previous collar locations varied between different reports and were therefore unreliable. An approximate collar location is provided for hole GP-90-1 as the exact location could not be found in the field. The collar locations for all drill holes are listed in Appendix 1.

A summary of significant results are listed in Table 2.

Plutonic operations Ltd. (MacDonald, 1993) drilled holes FTD1, FTD2, FTD3 and FTD4 under the small Noranda drill holes (Jones, 1991). These holes were designed to test the down dip extension of the mineralisation. Although alteration and mineralisation was intersected, the program left some doubt as to the continuity of high grade zones and the geology of the prospect (Macdonald, 1993).

Drillholes FTD5, FTD6, FTD7 and FTD8 were designed to test the continuity of the mineralisation down dip between previous intersections. These holes demonstrate the continuity of the epigenetic style mineralisation and suggest that higher grade mineralisation can be delineated within the prospect.

Drill hole FTD9 was designed to test the eastern strike extension of the prospect. The hole intersected the mineralised zone 50m east of the nearest intersection before intersecting a large NW striking fault displacing the host horizon 100m south-east. The hole was still in the mineralised zone when the fault was intersected.

Drill hole FTD10 was designed to test the host sequence 200m east of FTD9. The hole was targeted under a coincident Au/As soil anomaly and anomalous rock chip Au (to 30g/t). The hole failed to intersect altered and mineralised volcanoclastics. However it did pass through a

faulted contact into strongly sericite-carbonate-silica-pyrite altered quartz-biotite porphyry. No significant gold was intersected.

The Firetower prospect does not appear to extend beyond the fault intersected in FTD9 and can be considered to be closed off by 446300E, at least near surface.

Drillholes FTD11 and FTD12 were designed to test the western extension of the prospect. Both holes intersected significant alteration and mineralisation although the gold grade appears to diminish to the west. The style of alteration changes from sericite-carbonate dominated to chlorite (after biotite?)-sericite-carbonate. The possible presence of biotite alteration suggests the western end of the Firetower prospect is closer to an intrusive source. FTD11 intersected a broad zone of altered volcanoclastics. Several small quartz porphyritic dykes intersect the zone. FTD12 obtained very poor recoveries for the first 50m. The flat angle of the hole and the deeply weathered rock resulted in much of the core washing away as the overshot was pumped down the hole.

Table 2. Significant intersections for all diamond drill holes.

BHID	From	To	Length m	Au g/t
FTD1	48	56	8	2.3
FTD1	58	61	3	1.3
FTD2	57	60	3	1.2
FTD2	76	81	5	2.2
FTD3	57	58	1	3.23
FTD3	68	76	8	2.5
FTD3	89	94	5	1.4
FTD3	104	107	3	1.8
FTD4	44	54	10	1.25
FTD4	69	71	2	1.8
FTD4	140	145	5	1.9
FTD5	38	66	28	2.4
FTD5	73	77	4	1.1
FTD6	32.2	58	25.8	1.5
FTD6	inc 32.2	42	9.8	1.5
FTD6	inc 44	47	3	2
FTD6	Inc 48	56	8	2.1
FTD6	73	80	7	0.5
FTD7	37	44	7	1.6
FTD7	57	59	2	1.9
FTD7	70	79	9	1
FTD8	18	24	6	0.4
FTD8	43	63	20	0.9
FTD8	34	67	33	0.7
FTD8	86	95	9	3.1
FTD9	47	62	15	0.5
FTD10	NSA			
FTD11	6	10	4	0.9
FTD11	27	64	36	0.6
FTD11	inc 27	30	3	0.8
FTD11	inc 32	34	2	0.8
FTD11	inc 40	55	15	0.8
FTD11	inc 47	54	7	1.1
FTD11	inc 61	64	3	1.5
FTD12	78	94	16	0.5
GP-90-1	0	24	24	2
GP-90-2	3	12	9	1

GP-90-2	19	21	2	1.5
GP-90-3	0	24.6	24.6	1.9
GP-90-4			nsa	
GP-90-5	20	26	6	1.2
GP-90-6	23	28	5	1.1
GP-90-7	2	8	6	2.8
GP-90-7	23	28	5	0.7
GP-90-8	0.7	5	4.3	1
GP-90-9	29	30.4	1.4	1.1
GP-90-10	7	24	17	5.4
GP-90-11	16	19	3	1.2
GP-90-12	20	21	1	1.1
GP-90-13	2	8	6	0.4
GP-90-13	27	29	2	0.7
GP-90-14	4	16	12	0.5
GP-90-15			nsa	
GP-90-16	28	30.75	2.75	2.3
GP-90-17	18	22	4	0.7
GP-90-17	25	29	4	0.8

4.4 Geophysics

4.4.1 Gradient Array IP

A limited dipole-dipole survey was completed over the Firetower Prospect by Sirrocco. Processing of this data indicates the Firetower Prospect is coincident with a dipole-dipole chargability high.

Previous soil sampling over the Gog Range by Noranda delineated anomalous areas of Cu , Pb and Zn with spot high Au and As extending 2km along strike from the Firetower Prospect. Outcrop on hill slopes is poor and down slope transport of scree and soil creep has made identification of the source of the anomalies unreliable. It was hoped a gradient array survey would identify near surface chargability anomalies under recent scree deposits on the steep hillsides of the Gog Range.

Fugro were contracted to complete a gradient array IP survey over the eastern extension of the host sequence of the Fire Tower Prospect in February/March 2002. A dipole-dipole survey over the Firetower prospect identified a chargability high coincident with the mineralisation (Figure 4). A gradient array survey was chosen as it is a far easy method to use in rough terrain. A gradient array survey would give the same response at surface as a dipole-dipole surface (dipole-dipole surveys are better for seeing deeper below the surface).

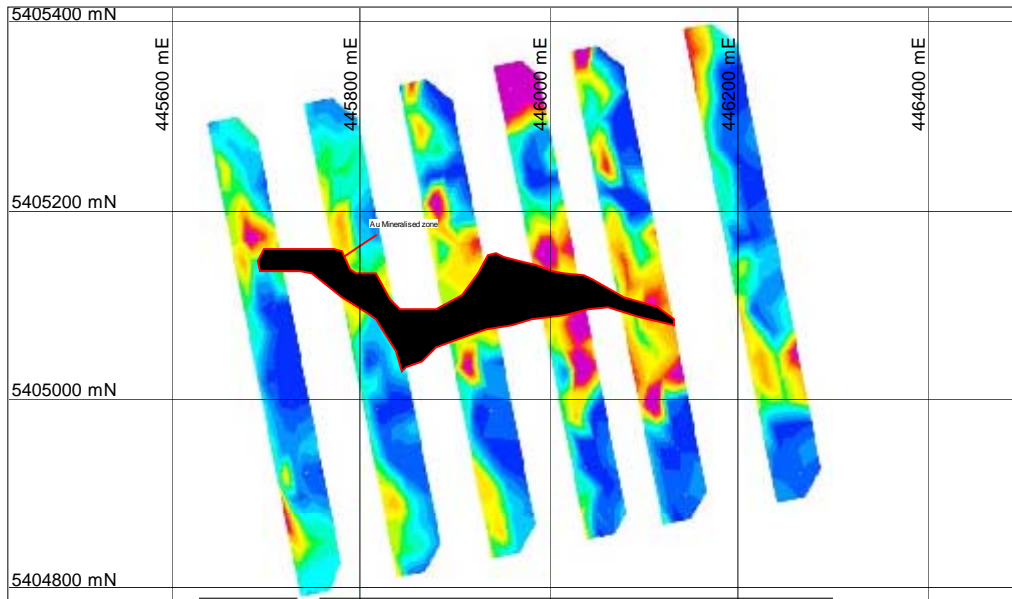


Figure 4. Firetower prospect dipole-dipole IP chargability image with mineralisation outline.

The gradient array survey highlighted an extensive linear chargability high extending along the trend of the host sequence of the Firetower Prospect (Figure 5). One line of Pole-Dipole IP was completed on line 42E. This line was completed to better model the source of the gradient array IP survey over the strongest chargability response.

Subsequent ground checking identified the source of the linear anomaly as silica-pyrite altered quartz-feldspar-biotite porphyry and quartz-hematite veined quartz-feldspar-biotite porphyry. All rock chips collected were below detection.

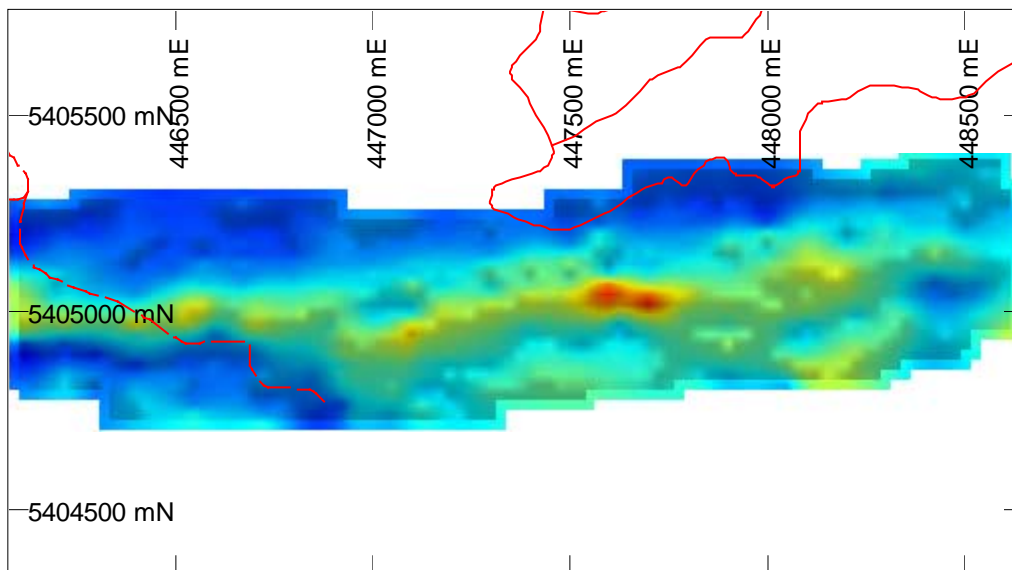


Figure 5. Gradient array IP chargability image.

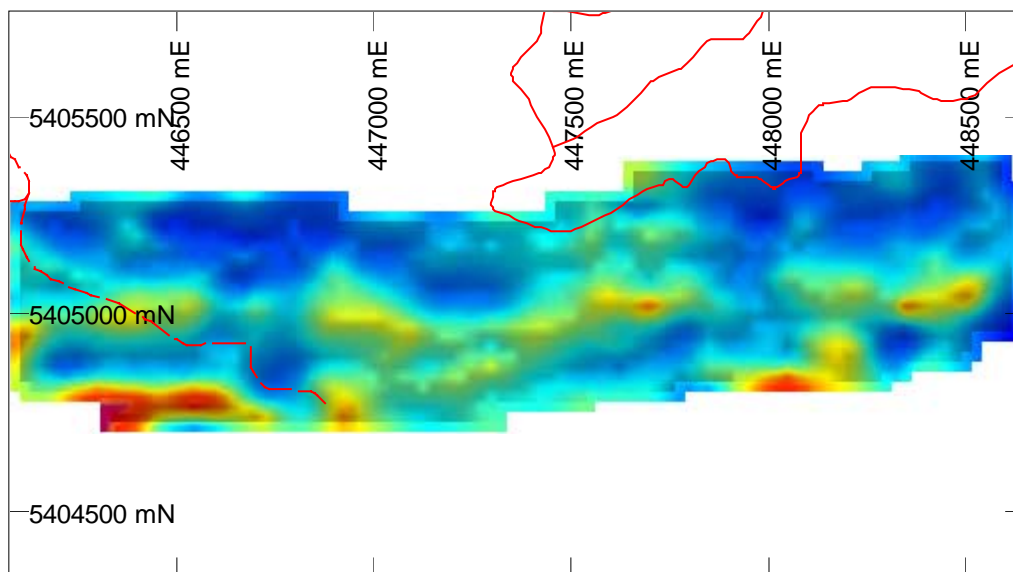


Figure 6. Gradient array resistivity image.

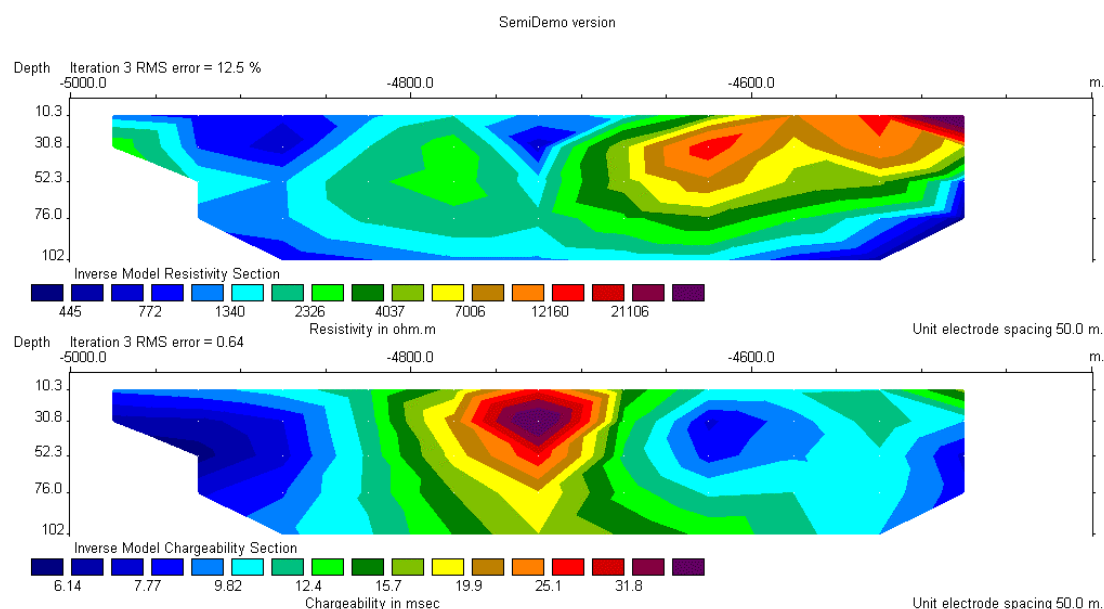


Figure 7. Pole-dipole inverted chargeability image, line 42E.

4.4.2 Ground Magnetics

A ground magnetic survey was completed over the Noranda grid in March 2002. An earlier survey was completed by CRAE but “its poor presentation makes any interpretation dubious” (Jones, 1989). The survey was principally designed to provide detailed resolution of a prominent aeromagnetic anomaly located south-east of the Firetower Prospect. The survey and data processing was completed by AurionGold geophysicist Chris Dauth and is presented as first vertical derivative and TMI images in Figures 8 and 9. Raw TMI data is presented in Appendix 2. The survey successfully delineated a discrete magnetic high south-east of the Firetower Prospect. Ground checking of the anomaly identified the source as quartz-magnetite veining within a quartz-feldspar-biotite porphyry. No gold was associated with the veining.

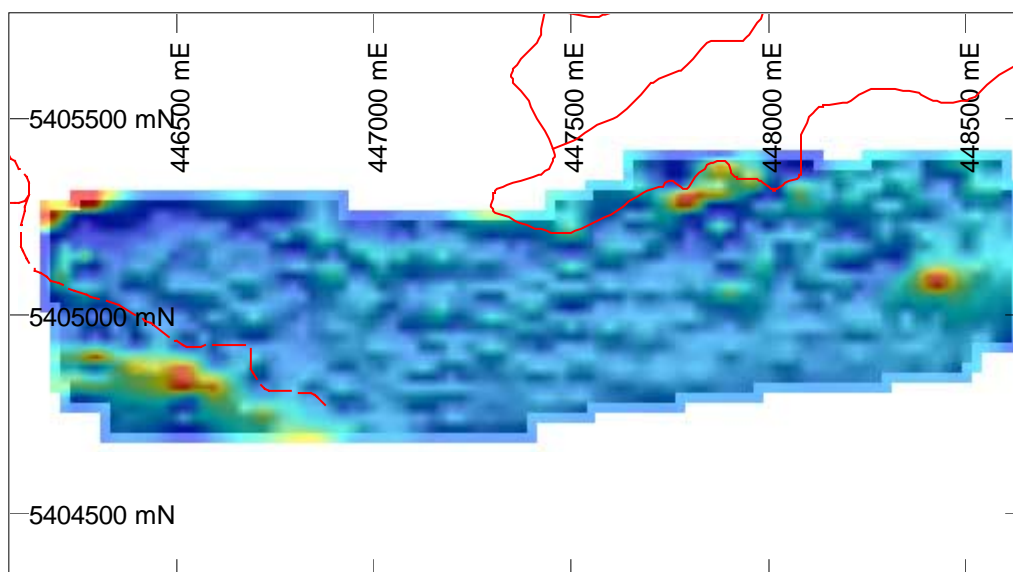


Figure 8. Ground Mag 1VD image

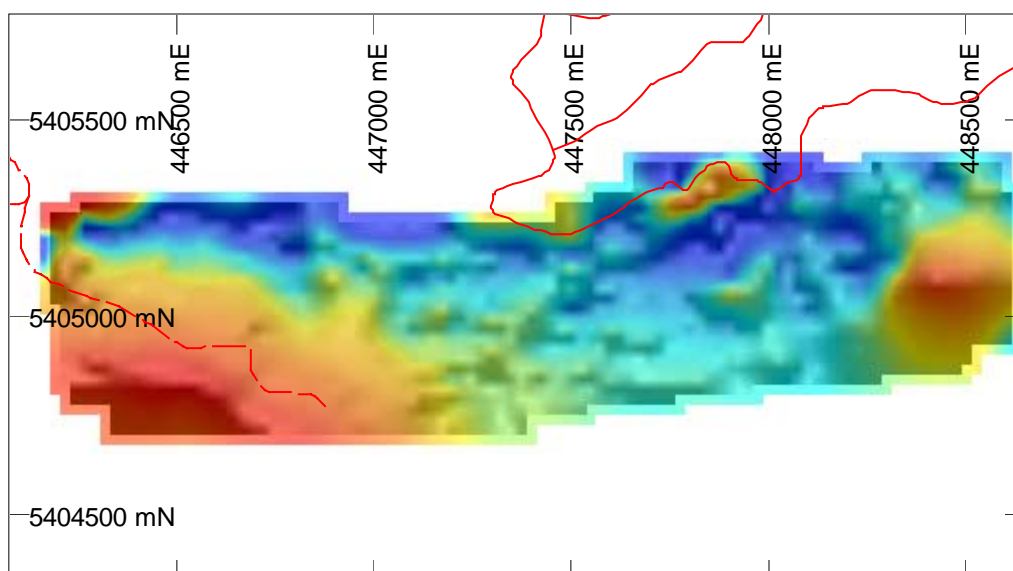


Figure 9. Ground Mag TMI image.

4.5 Geochemistry

4.5.1 Stream Sediment Geochemistry

Previous stream sediment sample data (Weber, 1984, Von Storkirch, 1986, Vivian, 1984, Herrmann, 1991, Jones, 1988) was compiled and assessed as part of a review of the regional potential of the Gog district. Stream sediment sampling was fairly sparse with varying techniques applied including -80#, BLEG and panned concentrates (pancon). Stream sediment samples were only assayed for Au from 1986 onwards. An infill sampling program of the Gog EL was implemented utilising BLEG, -80# and pancon to provide continuity with previous sampling programs.

BLEG samples involved collecting approximately 5Kg of -2mm active stream sediment from stream beds. Samples were analysed by the BLEG method (B687) at Analabs Laboratories in Burnie. The results are quoted in ppt to maintain consistency with the previous surveys, although the method used quotes a detection limit of 1 ppb.

Pancon samples were obtained from trap sites in stream beds. The samples consisted of approximately 2-3kg of -2mm sediment panned down to a heavy mineral separate of around

20-30g. Samples were assayed for Au by fire assay (F650), Cu, Pb, Zn and Ag by AAS (A102) and W by ICP-MS (M117).

The -80# samples were obtained by screening finest available mud/silt from the active stream sediment to obtain approximately 0.6kg of -80# material. This was analysed for Au by fire assay (F650)

The newly acquired data has been compiled with historical data and is listed in Appendix 3. Sample results are displayed in Enclosure 17.

Significant Au stream sediment anomalies were generated from all three sampling techniques. Rarely did individual sample sites return above background results for all three methods. It is worth noting that the stream draining the Firetower prospect returned pancon values of 320 ppm and 389 ppm W (Weber, 1984), but was below detection for -80#. This result suggests either that pancon sampling is the most reliable method or that all three techniques should be utilised to reduce the possibility of not detecting anomalous drainage systems.

None of the pancon Au assays from the recent program approached the value of the Firetower Prospect drainage although significant pancon Au and W anomalies were generated, particularly from the West Gog area. Anomalous Au from BLEG, pancon and -80# and anomalous W from pancon samples was present in many streams draining both the north and south of Roland Ridge (West Gog). The western part of the anomaly was subsequently gridded and soil sampled.

Several one off pancon anomalies are located on streams draining the northern slopes of the Gog Range east of the Noranda Grid. This area requires reconnaissance mapping and rock chip sampling.

Historical BLEG sampling (VonStrokirch, 1986) detected a prominent Au anomaly in the Gregory's Road area and also in the vicinity of the Minnow River alluvial goldfield. Both of these areas are located on Pasminco's EL just north of the Gog EL.

4.5.2 C-Horizon Soil Geochemistry

Historical C-Horizon soil geochemical data from the Noranda and Sirrocco grids was compiled and imaged. Images are located in Enclosures 19 and 20. A prominent Au and As soil geochemistry high is located directly over the Fire tower Prospect. Cu Pb and Zn anomalies are also present but appear to be distal to the Au-As high. This area has been drill tested and contains an inferred resource of 80 000 oz at 0.8 g/t Au (section 4.6).

Spotty Au and As extends east of the Firetower Prospect for up to 2km. Cu, Pb and Zn anomalies are located along strike east of the Firetower prospect. The anomalies have been followed up with rock chip geochemistry and gradient array IP surveys. No positive targets were identified from the additional work.

New C-Horizon soil data was acquired from a survey over the West Gog Grid in April-May 2002. Samples were taken by hand or power auger on 25m intervals on 200m east-west spaced lines. Approximately 1-2kg samples were obtained from the bedrock/soil interface. Samples were sent to Analabs laboratories in Burnie and were analysed for Au by fire assay (F650), Cu, Pb and Zn by AAS (A102) and As by AAS (H102). Sample locations and analyses are listed in Appendix 5 and displayed in Enclosures 21 and 22.

Large Au, As, Cu, Pb and Zn C-horizon soil anomalies of a similar order to those over the Firetower Prospect are present on the West Gog Grid. However the Firetower prospect did contain 4 soil samples > 1 g/t over the outcropping mineralisation. The West Gog anomaly is of a much larger areal extent and is open to the north and east. Outcrop contained limonitic quartz veins and malachite with rock chip values to 3.3% Cu. There is also a prominent Au anomaly associated with a magnetic high in the centre west of the grid. This anomaly appears to be hosted in a stock work veined quartz-biotite porphyry intruding rhyolitic

volcaniclastics. Numerous gossans and pyrite altered volcanics were also mapped in this area. This area requires detailed follow up rock chip sampling and possibly infill soil sampling, a gradient array IP survey and trenching or drill testing of coincident anomalies. The Grid should be extended east and north.

4.5.3 Rock Chip Geochemistry

A total of 143 rock chip samples were collected from the Gog EL and sent for analysis at Analabs laboratories in Burnie. Samples were generally of about 1-2 kg in weight. All samples were routinely assayed for Au (fire assay F650), Cu, Pb and Zn (AAS, A102), As (AAS, H102) and selected samples assayed for Ti, Zr, P and V (XRF, X401). All the data has been compiled with previous rock chip geochemical data and is listed in Appendix 4. Rock chip locations and analyses are displayed in Enclosure 18.

Rock chip geochemistry identified several areas of anomalous gold and base metals, all of which had been identified from C-Horizon soil sampling programs. The westerly extension of the Firetower Prospect consistently returned interesting rock chip Au and As results of up to 6.4 g/t Au. Rock chip Au geochemistry suggests the prospect extends a further 200m west of the western most drill hole (FTD12). Au is often though not invariably associated with elevated As and Cu. Anomalous Au also extends up to 500m east of the Firetower Prospect. A 30g/t rock chip sample and other lower order anomalies (<1g/t) were tested by diamond drill hole FTD10. No Au was intersected in the drill hole (see section 4.3).

Several spotty anomalous Au/As samples occur approximately 1km along strike to the east of the Firetower prospect. These samples are associated with Au-basemetal soil anomalies and have been ground checked. The limited size and low order of these anomalies does not warrant further work. Jones (1989) suggests the soil anomaly is associated with a narrow shear zone extending east from the Firetower Prospect although this shear was not identified in recent mapping. The grid was tested with gradient array IP as discussed in section 4.4.

A large area of anomalous Au, As and Cu was identified in the West Gog area. Au is of a low order but the areal extent of the anomaly and high Cu values (to 3.3%) suggest additional work is required.

4.6 Resource Estimation

The Firetower Prospect is a stock work veined system more amenable to bulk mining methods rather than selective mining of high grade zones. Currently the prospect is an order of magnitude too small to consider development. Although the prospect is still open to the west, it is unlikely a resource of sufficient size and grade can be delineated. A preliminary resource estimation was completed to give a broad estimate of the contained ounces within the alteration envelope. An inferred resource of approximately 3.6 Mt @ 0.8 g/t Au (90 000oz) was estimated for the Firetower Prospect.

The estimation utilised the polygonal estimation package provided with Micromine software. A total of 16, 25m spaced, east-west sections were included in the polygonal model, beginning at 445750E and ending at 446125E. Polygon areas of influence extend 12.5m either side of the designated section equating to a total strike length for the estimate of 400m. The polygons were extended to a depth of 100m from surface. Each section was assigned a single polygon outline enveloping the main alteration/mineralisation envelope (Au>0.1 g/t Au). Polygons include significant internal dilution (ie Au<0.1 g/t). Outliers of mineralisation were excluded from polygon outlines. A specific gravity (SG) of 2.6 was assigned for tonnage estimations (no SG measurements were conducted). No top cut was applied to the data. Polygons without a designated grade were assigned the average grade of all sections (0.8 g/t Au) to calculate the total contained ounces.

Obviously a more sophisticated estimation technique could be applied to decrease the dilution and increase the estimated grade. Block modelling would be the preferred estimation technique for this type of deposit. However the Firetower Prospect is unlikely to contain enough gold to warrant a more detailed estimation.

Results of the estimate are located in Table 3.

Table 3. Firetower Prospect inferred resource estimate.

Easting	Tonnes	Au g/t	Tonnes x Au g/t
445750	117260	0.39	45731.4
445775	180115	0.8	144092
445800	94380	0.41	38695.8
445825	256815	0.8	205452
445850	315835	0.48	151600.8
445875	316290	0.51	161307.9
445900	338780	0.8	271024
445925	251810	0.89	224110.9
445950	561535	0.7	393074.5
445975	409305	0.85	347909.25
446000	290745	1.45	421580.25
446025	135265	1.48	200192.2
446050	72280	1.56	112756.8
446075	59735	0.8	47788
446100	57395	0.49	28123.55
446125	105300	0.8	84240
	3562845		2877679.4

Total oz 89927.5

5 DISCUSSION

The Firetower Prospect is a significant stock work style gold deposit hosted in volcanoclastics of the Gog Range greywacke. Auriongold are targeting a 50MT stockwork Au or intrusion related Cu-Au deposit. The Firetower Prospect, although interesting falls well short of the required target. However the West Gog area and the Pasminco held tenements to the north require further work.

The Firetower prospect is an epigenetic stock work veined Au deposit with a W, As, Cu and minor Pb, Zn association. It is hosted in the intensely carbonate-sericite altered volcanoclastics and is possibly related to nearby quartz-feldspar-biotite porphyry intrusions. Additional drilling during the past year has extended the prospect over a strike length of 400m. It has been closed off to the east but remains open to the west for at least a further 200m as suggested by rock chip geochemistry. Drilling suggests continuity of higher grade mineralisation between drillholes. An inferred resource of the contained ounces of the prospect was calculated to be 3.6 Mt @ 0.8 g/t Au (90,000 oz). A higher grade core is contained within this resource but is only of a very limited size (approximately 100m strike length). The style of mineralisation is amenable to bulk mining but is not of sufficient size to justify further work.

Reconnaissance exploration has identified several areas worthy of further exploration. These are the West Gog area and several pancon Au anomalies located along the Gog Range east of the Noranda Grid.

Gridding , mapping and soil sampling of the West Gog area has identified large Au, As, Cu, Pb and Zn C-horizon soil anomalies of a similar order to those over the known Firetower prospect to the west. However the Firetower prospect did contain 4 soil samples > 1 g/t. Systematic mapping of the grid has identified numerous gossans and stockworked veined volcanics and quartz-phyric intrusives identical to those at the Firetower prospect. Rock chip sampling of outcrop and float returned numerous anomalous samples but of a generally low order (0.1 g/t). By contrast the Firetower prospect returned samples to 30g/t from outcrop.

The NE corner of the grid contains coincident Au, As, Cu, Pb and Zn anomalies in stockwork veined volcanoclastics. Outcrop contained limonitic quartz veins and malachite with rockchip values to 3.3% Cu. It is recommended that the grid be extended to the east to continue coverage of C-Horizon soil sampling, mapping and rock chip sampling. The grid should be extended far enough to cover the drainage of a few creeks with BLEG and/or W stream sediment anomalies.

This anomaly is open northwards onto the Pasminco held EL.

There is also a prominent Au anomaly associated with a magnetic high in the centre west of the grid. This anomaly appears to be hosted in a stock-work veined quartz porphyry intruding rhyolitic volcanoclastics. Numerous gossans and pyrite altered volcanics were also mapped in this area.

Detailed rock chip sampling and mapping of the best anomalies is recommended.

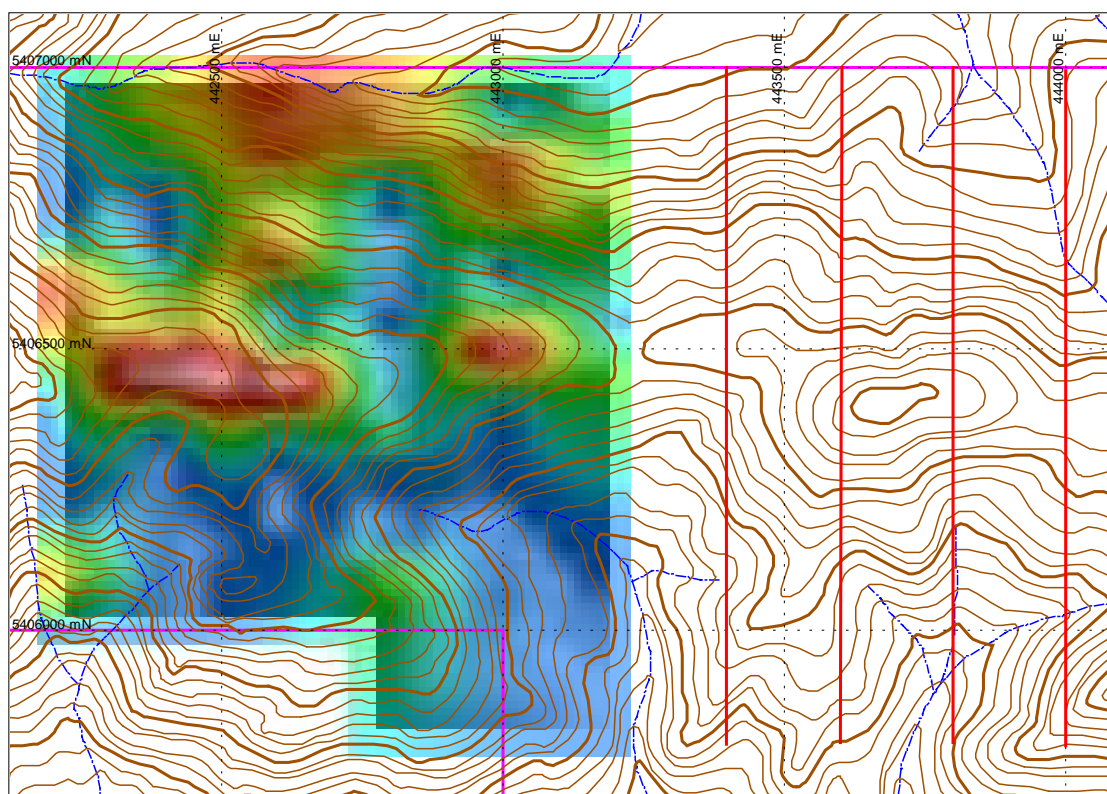


Figure 10. Proposed West Gog Grid Extension.

Drilling or trenching of the anomalies should also be considered if rock chip sampling is encouraging. Three preliminary trenches or RC drillholes testing Au-As-basemetal anomalies and the coincident Au-magnetic high anomaly are recommended.

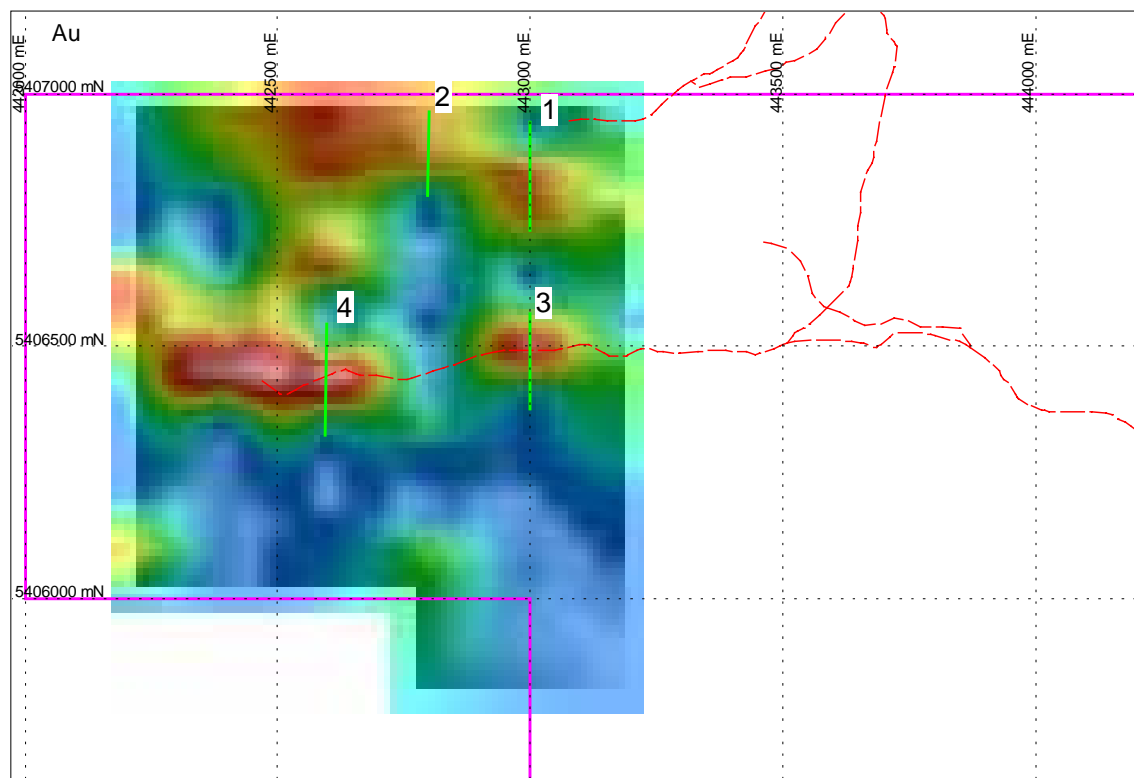


Figure 11. West Gog Soil Au with proposed drilling or trenching. Lines 1 and 3 are on coincident Au-As-basemetal anomalies. Line 3 is on outcropping Cu stock work with Au-basemetal anomaly. Line 4 is coincident Magnetic High and au anomaly.

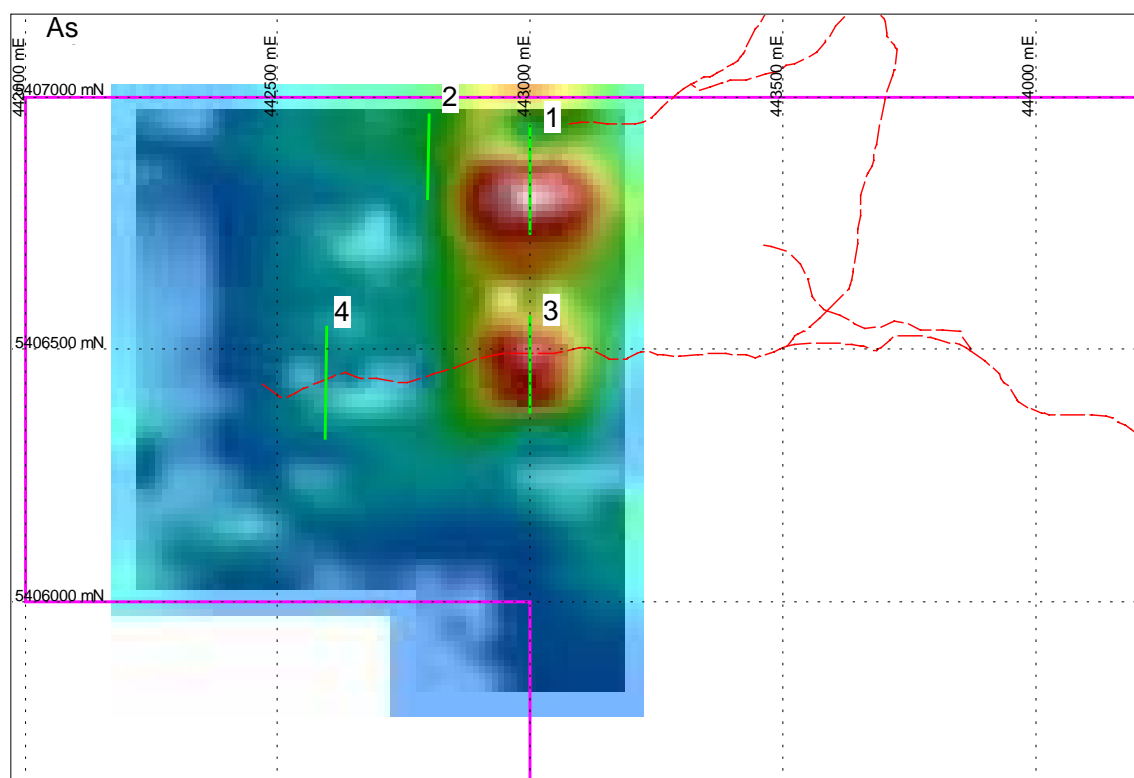


Figure 12. West Gog Soil As with proposed drilling or trenching.

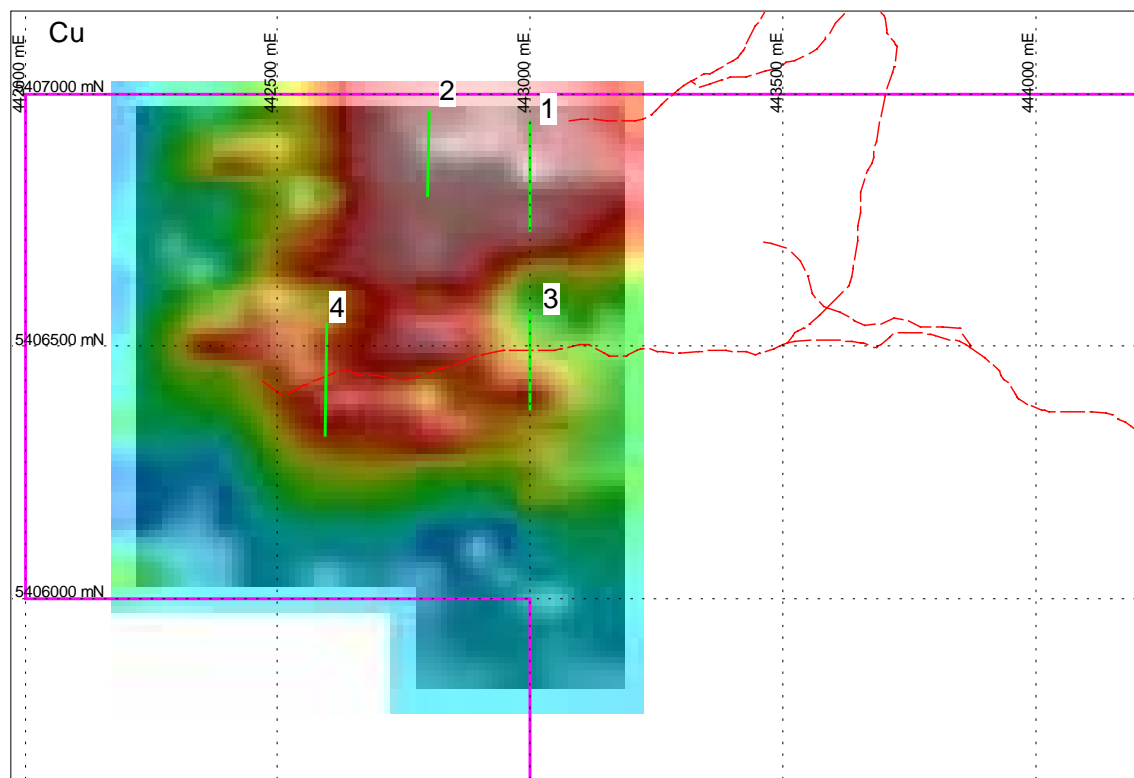


Figure 13. West Gog Soil Cu with proposed drilling or trenching.

Minor pancon Au anomalies from streams draining the northern slopes of the Gog Range, east of the Noranda Grid require ground checking.

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APPENDIX 1

Drill Logs

GOLDFIELDS EXPLORATION (ZEEHAN) - ROCK CODES

TYPE

- U - Volcanic (general)
- V - Volcaniclastic
- E - Epiclastic
- L - Lava
- I - Intrusive

COMPOSITION

- R - Rhyolite
- Y - Rhyodacite
- D - Dacite
- A - Andesite
- B - Basaltic
- F - Felsic
- M - Mafic
- U - Ultramafic

CRYSTAL TYPE

- X - Crystal rich
- A - Aphyric
- F - Feldspar phyric
- < - Feldspar - quartz phyric
- > - Quartz - feldspar phyric
- Q - Quartz phyric
- H - Hornblende phyric
- P - Pyroxene phyric
- B - Biotite phyric

Conglomerate

V - Vitric / glassy

Sandstone

L - Lithic rich

units

R - Reworked, commonly with Carbonate matrix

OTHERS

- TILL - Glacial moraine
- CLAY - Glacial clays
- SILT - Black pyritic siltstone
- FALT - Fault
- CARB - Massive Carbonate
- CBBX - Carbonate breccia
- VEIN - Vein
- GWAC - Greywacke
- CONG - Siliciclastic

SAND - Siliciclastic

XXXX/YYYY - Interbedded

GRAINSIZE

- B - Breccia
- C - Coarse
- M - Medium (Sandy)
- F - Fine (Silty)
- V - Very fine (Shaley)
- A - Ashy
- / - Undifferentiated
- X - Crystal Rich
- P - Pumiceous

ALTERATION

- P - Pyrite
- \$ - Mineralised
- Q - Quartz
- O - Chlorite
- C - Carbonate
- H - Hematite
- S - Sericite
- K - K feldspar
- A - Albite

alteration

E - Epidote

N - Scale

- 1 - Very Weak
- 3 - Weak
- 5 - Moderate
- 7 - Strong
- 9 - Intense

eg. AOC7

Strong albite-chlorite-carbonate

(albite>chlorite>carbonate, albite = 7)

F - Fuchsite
M - Magnetite
L - Limonite

Firetower Prospect DDH Collar Locations.

Hole_Id	AMG East	AMG North	AMG RL	Total Depth
FTD1	446039.70	5405142.80	649.50	145.00
FTD10	446295.20	5405035.50	621.60	115.00
FTD11	445854.70	5405039.80	537.30	138.70
FTD12	445742.00	5405067.70	499.70	126.00
FTD2	446004.00	5405070.80	627.30	122.60
FTD3	445972.30	5405065.50	611.60	121.50
FTD4	445936.40	5405057.70	590.70	153.00
FTD5	446006.10	5405071.40	627.80	108.10
FTD6	446028.80	5405075.30	637.10	117.00
FTD7	445974.00	5405068.70	612.60	107.50
FTD8	445951.30	5405063.50	600.20	126.60
FTD9	446102.00	5405050.00	629.70	111.70
GP-90-1	445982.70	5405137.60	641.70	24.70
GP-90-10	446001.10	5405134.20	644.70	30.25
GP-90-11	445817.72	5405122.41	562.19	30.45
GP-90-12	445817.72	5405123.13	562.54	30.30
GP-90-13	445808.94	5405100.33	542.67	30.60
GP-90-14	445808.94	5405099.00	542.00	32.30
GP-90-15	445875.60	5405127.20	564.60	30.85
GP-90-16	445879.50	5405111.80	564.80	30.75
GP-90-17	445879.10	5405081.00	559.80	30.35
GP-90-2	445963.05	5405139.84	635.92	25.80
GP-90-3	445917.28	5405103.76	599.69	24.60
GP-90-4	445975.34	5405167.28	628.79	27.20
GP-90-5	445980.10	5405155.80	632.60	30.20
GP-90-6	445984.63	5405126.76	639.14	30.45
GP-90-7	445983.20	5405110.60	633.60	30.95
GP-90-8	445987.30	5405097.50	627.50	30.15
GP-90-9	446015.70	5405144.60	647.90	30.45

Firetower Prospect DDH down hole surveys.

Hole_Id	Depth	Azm_AMG	Dip
FTD1	0.00	174.00	-44.7
FTD1	49.00	174.00	-44.7
FTD1	100.00	175.00	-44.4
FTD1	145.00	176.00	-44.1
FTD10	0.00	179.50	-35
FTD10	24.00	179.50	-35
FTD10	75.00	180.00	-35.5
FTD11	0.00	0.00	-30
FTD11	30.00	0.00	-30
FTD11	138.00	0.00	-28
FTD12	0.00	0.00	-20
FTD12	50.00	359.00	-21.5
FTD12	100.00	358.00	-23
FTD2	0.00	354.00	-45
FTD2	60.00	356.50	-43.3
FTD2	120.00	358.50	-42
FTD3	0.00	354.00	-45
FTD3	60.00	356.00	-41.2
FTD3	120.00	356.00	-41
FTD4	0.00	354.00	-45
FTD4	75.00	352.00	-41.2
FTD4	150.00	352.00	-41.1
FTD5	0.00	0.00	-20
FTD5	12.00	359.00	-20
FTD5	50.00	0.00	-18
FTD6	0.00	0.00	-45
FTD6	60.00	0.00	-44
FTD6	100.00	358.00	-42.5
FTD7	0.00	0.00	-15
FTD7	12.00	0.00	-15
FTD7	60.00	0.00	-13
FTD7	107.00	0.00	-12.5
FTD8	0.00	0.00	-20
FTD8	100.00	357.00	-20
FTD9	0.00	358.00	-45
FTD9	20.00	358.00	-45
FTD9	100.00	358.00	-43.5
GP-90-1	0.00	0.00	-90
GP-90-10	0.00	174.00	-45
GP-90-11	0.00	354.00	-44
GP-90-12	0.00	174.00	-60
GP-90-13	0.00	354.00	-45
GP-90-14	0.00	174.00	-60
GP-90-15	0.00	174.00	-55
GP-90-16	0.00	174.00	-55
GP-90-17	0.00	174.00	-55
GP-90-2	0.00	0.00	-90
GP-90-3	0.00	89.00	-65

GP-90-4	0.00	174.00	-55
GP-90-5	0.00	174.00	-50
GP-90-6	0.00	174.00	-52
GP-90-7	0.00	174.00	-51
GP-90-8	0.00	174.00	-55
GP-90-9	0.00	174.00	-49

GOLDFIELDS EXPLORATION DRILL HOLE RECORD

HOLE NUMBER	FTD5	DRILLED BY	Almac Drilling Pty Ltd
PROJECT	Gog EL 12/2001	NORTHING	5405071.4
PROSPECT	Firetower	EASTING	446006.1
DESIGNED BY	TC	RL	627.8
LOGGED BY	TC	INCLINATION	-20
COMMENCED	Nov 01	AZIMUTH	0 AMG
FINISHED	Nov 01	EOH	108.1

PURPOSE

Test down dip continuity of Firetower Prospect Au mineralisation

SURVEY DATA

DEPTH	INC.	AZ.	DEPTH	INC.	AZ.	DEPTH	INC.	AZ.
0	-20	0						
12	-20	359						
50	-18	0						

DRILLING DATA

HOLE SIZE	DEPTH	COMMENTS
HQ	108.1	

SUMMARY

38-66 28m @ 2.4 g/t Au
73-77 4m @ 1.1 g/t Au

DDH FTD5 Assay results.

BHID	Sample _No	From	To	Au_G	AuR_G	As_A	Ag_A	Cu_A	Pb_A	Zn_A
FTD5	1083294	3.3	4	-0.01		-50	2	68	35	81
FTD5	1083295	4	5	-0.01		-50	1	22	6	61
FTD5	1083296	5	6	-0.01		-50	2	16	5	61
FTD5	1083297	6	7	-0.01		-50	2	34	3	56
FTD5	1083298	7	8	-0.01		-50	2	52	26	81
FTD5	1083299	8	9	0.2		55	2	70	16	73
FTD5	1083301	9	10	-0.01		-50	1	14	10	57
FTD5	1083302	10	11	-0.01		-50	2	24	8	48
FTD5	1083303	11	12	-0.01		-50	2	87	10	46
FTD5	1083304	12	13	-0.01		-50	2	76	14	67
FTD5	1083305	13	14	-0.01		-50	2	27	10	68
FTD5	1083306	14	15	0.04		70	3	48	13	122
FTD5	1083307	15	16	-0.01		80	1	92	11	98
FTD5	1083308	16	17	-0.01		-50	2	356	31	178
FTD5	1083309	17	18	-0.01		-50	2	61	25	224
FTD5	1083310	18	19	-0.01		-50	1	14	15	167
FTD5	1083311	19	20	-0.01		-50	2	56	50	153
FTD5	1083312	20	21	-0.01		-50	2	104	14	247
FTD5	1083313	21	22	-0.01		-50	2	256	14	206
FTD5	1083314	22	23	0.01		-50	2	93	23	865
FTD5	1083315	23	24	0.03		-50	2	177	324	401
FTD5	1083316	24	25	0.12		-50	3	262	2580	825
FTD5	1083317	25	26	0.31		-50	5	305	3410	1125
FTD5	1083318	26	27	0.07		-50	2	93	1025	312
FTD5	1083319	27	28	0.06		125	2	149	186	250
FTD5	1083320	28	29	0.14		170	3	361	1155	2700
FTD5	1083321	29	30	0.03		-50	2	178	703	640
FTD5	1083322	30	31	0.57		65	3	129	742	909
FTD5	1083323	31	32	0.15	0.17	-50	3	171	1245	1090
FTD5	1083324	32	33	0.14		-50	1	93	501	510
FTD5	1083325	33	34	0.15		-50	3	356	535	1360
FTD5	1083326	34	35	0.21		-50	2	140	537	368
FTD5	1083327	35	36	0.03		-50	1	71	164	283
FTD5	1083328	36	37	0.2	0.17	80	2	56	299	89
FTD5	1083329	37	38	-0.01		270	2	68	57	103
FTD5	1083330	38	39	3.75	3.65	145	4	424	18	81
FTD5	1083331	39	40	1.38		-50	3	350	135	110
FTD5	1083332	40	41	0.48		-50	2	73	46	115
FTD5	1083333	41	42	1.01		-50	3	249	82	213
FTD5	1083334	42	43	1.23		-50	4	41	81	137
FTD5	1083335	43	44	0.39		225	2	89	228	502
FTD5	1083336	44	45	0.67		-50	3	69	65	171
FTD5	1083337	45	46	5.5	5.45	2010	6	309	240	351
FTD5	1083338	46	47	0.82		125	3	229	1900	1245
FTD5	1083339	47	48	0.47		60	2	59	547	325
FTD5	1083340	48	49	1.05		155	2	28	534	466
FTD5	1083341	49	50	0.43		70	2	122	265	355
FTD5	1083342	50	51	0.69		930	4	490	356	818
FTD5	1083343	51	52	0.66		400	2	96	65	181
FTD5	1083344	52	53	3.8	3.6	1620	6	443	417	1960

FTD5	1083345	53	54	1.83		810	4	5000	1045	413
FTD5	1083346	54	55	0.46		-50	3	202	2940	630
FTD5	1083347	55	56	9.45	9.9	475	13	2550	861	621
FTD5	1083348	56	57	2.6	2.55	-50	3	182	31	103
FTD5	1083349	57	58	5.6	5.25	65	9	5500	41	559
FTD5	1083351	58	59	0.7		145	2	1245	34	366
FTD5	1083352	59	60	3.5	3.45	4200	5	2380	88	442
FTD5	1083353	60	61	0.5	0.55	545	2	207	33	279
FTD5	1083354	61	62	5.75	5.45	1180	5	1950	38	661
FTD5	1083355	62	63	1.23		1250	3	3130	46	1040
FTD5	1083356	63	64	1.12		1040	3	2410	75	836
FTD5	1083357	64	65	5.85	5.7	1170	8	6000	190	2420
FTD5	1083358	65	66	7.3	6.05	980	9	1960	54	372
FTD5	1083359	66	67	0.75		210	2	166	7	100
FTD5	1083360	67	68	0.25		-50	2	945	9	715
FTD5	1083361	68	69	0.02		-50	1	216	16	95
FTD5	1083362	69	70	0.02		-50	1	105	12	99
FTD5	1083363	70	71	0.02		-50	1	27	-3	59
FTD5	1083364	71	72	0.27		50	2	1100	13	338
FTD5	1083365	72	73	0.18		425	2	536	26	293
FTD5	1083366	73	74	2.5	2.3	1920	8	3350	62	1795
FTD5	1083367	74	75	0.36		65	2	765	6	77
FTD5	1083368	75	76	0.08		-50	2	630	10	113
FTD5	1083369	76	77	1.3		50	5	2200	91	1180
FTD5	1083370	77	78	0.11		-50	2	981	14	153
FTD5	1083371	78	79	0.03		-50	2	675	17	66
FTD5	1083372	79	80	0.02		-50	2	898	33	62
FTD5	1083373	80	81	0.03		-50	2	996	20	149
FTD5	1083374	81	82	0.02		-50	1	109	7	45
FTD5	1083375	82	83	-0.01		-50	2	9	-3	54
FTD5	1083376	83	84	-0.01		-50	1	5	-3	36
FTD5	1083377	84	85	-0.01		-50	1	7	3	31
FTD5	1083378	85	86	-0.01		-50	1	26	4	23
FTD5	1083379	86	87	-0.01		-50	2	12	14	86
FTD5	1083380	87	88	-0.01		-50	-1	7	11	64
FTD5	1083381	88	89	-0.01		-50	-1	7	13	49
FTD5	1083382	89	90	-0.01		-50	-1	38	11	81

GOLDFIELDS EXPLORATION DRILL HOLE RECORD

HOLE NUMBER	FTD6	DRILLED BY	Almac Drilling Pty Ltd
PROJECT	Gog EL 12/2001	NORTHING	5405075.3
PROSPECT	Firetower	EASTING	446028.8
DESIGNED BY	TC	RL	637.1
LOGGED BY	TC	INCLINATION	-45
COMMENCED	Dec 01	AZIMUTH	0 AMG
FINISHED	Dec 01	EOH	117

PURPOSE

Test down dip continuity of Firetower Prospect Au mineralisation

SURVEY DATA

DEPTH	INC.	AZ.	DEPTH	INC.	AZ.	DEPTH	INC.	AZ.
0	-45	0						
60	-44	0						
100	-42.5	358						

DRILLING DATA

HOLE SIZE	DEPTH	COMMENTS
HQ	117	

SUMMARY

32.2 - 58 25.8m @ 1.5 g/t Au
Inc. 32.2 – 42 9.8m @ 1.5 g/t Au
44 – 47 3m @ 2.0 g/t Au
48 – 56 8m @ 2.1 g/t Au
73 – 80 7m @ 0.5 g/t Au

DDH FTD6 Assay Results

BHID	Sample_No	From	To	Au_G	AuR_G	As_A	Ag_A	Cu_A	Pb_A	Zn_A	
FTD6	1083201	0	1	-0.01			-50	1	67	482	23
FTD6	1083202	1	2	-0.01			-50	1	85	231	38
FTD6	1083203	2	3	-0.01			-50	-1	33	77	59
FTD6	1083204	3	4	-0.01			-50	-1	54	127	34
FTD6	1083205	4	5	0.02			-50	-1	107	251	99
FTD6	1083206	5	6	0.04			-50	-1	62	211	259
FTD6	1083207	6	7	-0.01			-50	-1	87	233	250
FTD6	1083208	7	8	0.01			-50	-1	187	166	366
FTD6	1083209	8	9	0.01			-50	-1	22	19	103
FTD6	1083210	9	10	0.03			-50	-1	94	221	74
FTD6	1083211	10	11	0.15			-50	-1	143	224	141
FTD6	1083212	11	12	-0.01	-0.01		-50	-1	106	1075	504
FTD6	1083213	12	13	-0.01			-50	-1	42	251	347
FTD6	1083214	13	14	0.05			-50	-1	34	62	65
FTD6	1083215	14	15	0.04			55	-1	51	163	233
FTD6	1083216	15	16	0.04			-50	-1	121	49	342
FTD6	1083217	16	17	0.01			-50	-1	55	57	114
FTD6	1083218	17	18	0.01			-50	-1	50	72	161
FTD6	1083219	18	19	0.03			-50	-1	27	45	91
FTD6	1083220	19	20	0.05			-50	-1	37	145	233
FTD6	1083221	20	21	0.17			-50	-1	53	124	272
FTD6	1083222	21	22	0.29			-50	1	159	252	346
FTD6	1083223	22	23	0.04			-50	1	322	189	285
FTD6	1083224	23	24	0.02			-50	1	113	200	269
FTD6	1083225	24	25	0.05			-50	1	284	64	114
FTD6	1083226	25	26	0.02			-50	-1	84	187	122
FTD6	1083227	26	26.7	0.02			-50	1	56	413	1450
FTD6	1083228	26.7	28	0.1			-50	2	58	267	403
FTD6	1083229	28	29	0.04			-50	-1	22	292	454
FTD6	1083230	29	30	0.04			-50	-1	43	1050	743
FTD6	1083231	30	31	0.03			-50	-1	29	245	230
FTD6	1083232	31	31.6	0.03			-50	1	11	312	355
FTD6	1083233	31.6	32.2	0.2			290	1	96	978	2380
FTD6	1083234	32.2	33	2			200	1	518	1790	2260
FTD6	1083235	33	34	1.79			145	-1	55	489	626
FTD6	1083236	34	35	3.45			755	-1	90	457	990
FTD6	1083237	35	36	2.05			235	-1	136	611	1635
FTD6	1083238	36	37	0.79			1140	-1	281	1895	4740
FTD6	1083239	37	38	0.35			830	-1	145	4940	8000
FTD6	1083240	38	39	0.65			100	-1	231	2970	2090
FTD6	1083241	39	40	0.61			1650	-1	535	7900	8200
FTD6	1083242	40	41	1.91			2160	2	320	5400	4710
FTD6	1083243	41	42	1.57			440	1	56	679	349
FTD6	1083244	42	43	0.3			315	1	25	55	135
FTD6	1083245	43	44	0.23			415	1	28	498	445
FTD6	1083246	44	45	0.65			505	1	45	902	930
FTD6	1083247	45	46	2.65			530	6	69	970	614
FTD6	1083248	46	47	2.65			285	6	127	1600	246
FTD6	1083249	47	48	0.07			130	1	26	2770	325
FTD6	1083251	48	49	0.84			785	3	873	2390	1965
FTD6	1083252	49	50	1.65			1820	5	1560	4530	5000

FTD6	1083253	50	51	0.9	180	3	909	325	488
FTD6	1083254	51	52	1.02	150	3	1475	313	1100
FTD6	1083255	52	53	3.45	260	4	1885	352	749
FTD6	1083256	53	54	5.55	1320	2	974	83	510
FTD6	1083257	54	55	0.95	70	-1	421	178	182
FTD6	1083258	55	56	2.55	375	3	1360	82	164
FTD6	1083259	56	57	0.15	205	-1	243	28	133
FTD6	1083260	57	58	0.34	440	-1	664	7	169
FTD6	1083261	58	59	0.02	50	-1	137	6	170
FTD6	1083262	59	60	0.1	140	-1	485	12	147
FTD6	1083263	60	61	0.03	-50	-1	147	11	125
FTD6	1083264	61	62	-0.01	-50	-1	96	37	321
FTD6	1083265	62	63	-0.01	-50	-1	88	28	367
FTD6	1083266	63	64	0.01	-50	-1	164	13	64
FTD6	1083267	64	65	-0.01	-50	-1	142	9	84
FTD6	1083268	65	66	0.01	-50	-1	110	20	113
FTD6	1083269	66	67	-0.01	-50	-1	48	79	273
FTD6	1083270	67	68	-0.01	-50	-1	95	16	92
FTD6	1083271	68	69	0.01	-50	-1	46	9	67
FTD6	1083272	69	69.9	0.08	-50	-1	577	18	232
FTD6	1083273	69.9	71	0.01	70	1	149	54	2680
FTD6	1083274	71	72	0.01	100	1	101	35	76
FTD6	1083275	72	73	0.01	-50	-1	123	25	93
FTD6	1083276	73	74.2	0.77	780	-1	146	96	1085
FTD6	1083277	74.2	75	0.24	460	-1	83	8	85
FTD6	1083278	75	76	0.4	1120	-1	86	158	948
FTD6	1083279	76	77	0.68	445	1	2520	20	318
FTD6	1083280	77	78	0.69	700	1	1555	101	391
FTD6	1083281	78	79	0.53	-50	1	877	29	236
FTD6	1083282	79	80	0.76	-50	2	2310	182	382
FTD6	1083283	80	81	0.04	-50	-1	324	9	201
FTD6	1083284	81	82	0.02	-50	-1	380	69	329
FTD6	1083285	82	83	0.03	-50	1	718	35	189
FTD6	1083286	83	84	0.01	-50	-1	76	28	179
FTD6	1083287	84	85	-0.01	-50	-1	32	45	98
FTD6	1083288	85	86	-0.01	-50	-1	35	43	147
FTD6	1083289	86	87	-0.01	-50	-1	26	50	158
FTD6	1083290	87	88	-0.01	-50	-1	361	13	64
FTD6	1083291	88	89	0.01	-50	-1	324	22	214
FTD6	1083292	89	90	-0.01	-50	-1	228	31	254

GOLDFIELDS EXPLORATION DRILL HOLE RECORD

HOLE NUMBER	FTD7	DRILLED BY	Almac Drilling Pty Ltd
PROJECT	Gog EL 12/2001	NORTHING	5405068.7
PROSPECT	Firetower	EASTING	445974
DESIGNED BY	TC	RL	612.6
LOGGED BY	TC	INCLINATION	-15
COMMENCED	Dec 01	AZIMUTH	0 AMG
FINISHED	Dec 01	EOH	107.5

PURPOSE

Test down dip continuity of Firetower Prospect Au mineralisation

SURVEY DATA

DEPTH	INC.	AZ.	DEPTH	INC.	AZ.	DEPTH	INC.	AZ.
0	-15	0						
60	-13	0						
107	-12.5	0						

DRILLING DATA

HOLE SIZE	DEPTH	COMMENTS
HQ	107.5	

SUMMARY

37 – 44 7m @ 1.6 g/t Au
57 – 59 2m @ 1.9 g/t Au
70 – 79 9m @ 1.0 g/t Au

DDH FTD7 Assay Results

BHID	Sample_No	From	To	Au_G	AuR_G	As_A	Ag_A	Cu_A	Pb_A	Zn_A
FTD7	1083384	4.5	6	0.02	0.02	-50	1	525	42	1820
FTD7	1083385	6	7	0.02		-50	1	520	83	4120
FTD7	1083386	7	8	0.01		65	1	399	47	1100
FTD7	1083387	8	9	0.01		-50	1	443	32	320
FTD7	1083388	9	10	0.03		150	2	656	52	1540
FTD7	1083389	10	11	0.03		180	1	154	59	422
FTD7	1083390	11	12	0.03		130	-1	68	14	144
FTD7	1083391	12	13	0.02		135	-1	46	12	74
FTD7	1083392	13	14	0.04		65	1	422	57	193
FTD7	1083393	14	15	0.18	0.2	100	1	114	41	388
FTD7	1083394	15	16	0.44		140	1	131	36	355
FTD7	1083395	16	17	0.17		250	1	86	99	407
FTD7	1083396	17	18	0.14		-50	1	144	54	123
FTD7	1083397	18	19	1.3		-50	2	145	35	143
FTD7	1083398	19	20	0.38		130	1	48	27	172
FTD7	1083399	20	21	0.25		210	2	67	32	109
FTD7	1083401	21	22	0.2		85	1	64	27	94
FTD7	1083402	22	23	0.11		245	1	182	36	448
FTD7	1083403	23	24	1.17		75	2	75	224	985
FTD7	1083404	24	25	0.31		245	3	92	400	7800
FTD7	1083405	25	26	0.06		-50	1	153	65	3940
FTD7	1083406	26	27	0.05		-50	1	226	20	178
FTD7	1083407	27	28	0.02		-50	-1	51	8	149
FTD7	1083408	28	29	0.03		-50	-1	95	12	173
FTD7	1083409	29	30	0.03		-50	2	54	20	204
FTD7	1083410	30	31	0.04		-50	1	59	12	96
FTD7	1083411	31	32	0.03		-50	1	109	29	142
FTD7	1083412	32	33	0.05		90	1	45	37	65
FTD7	1083413	33	34	0.05		-50	1	33	8	97
FTD7	1083414	34	35	0.03		-50	1	55	10	70
FTD7	1083415	35	36	0.2		-50	1	22	9	84
FTD7	1083416	36	37	0.28		-50	1	34	8	90
FTD7	1083417	37	38	2.4		-50	3	203	12	87
FTD7	1083418	38	39	1.16	1.22	-50	1	158	7	58
FTD7	1083419	39	40	1.97		-50	3	261	7	74
FTD7	1083420	40	41	1.67		75	3	162	21	165
FTD7	1083421	41	42	1.56		365	2	186	40	715
FTD7	1083422	42	43	0.45	0.47	1610	3	738	126	235
FTD7	1083423	43	44	1.84		135	5	814	116	403
FTD7	1083424	44	45	0.18		85	2	1420	65	238
FTD7	1083425	45	46	0.78		1990	2	225	100	221
FTD7	1083426	46	47	0.61		1150	1	292	29	83
FTD7	1083427	47	48	0.4		260	2	743	19	97
FTD7	1083428	48	49	0.54		215	3	1145	120	351
FTD7	1083429	49	50	0.25		435	2	231	30	127
FTD7	1083430	50	51	0.05		220	1	462	32	100
FTD7	1083431	51	52	0.05		410	1	39	47	86
FTD7	1083432	52	53	0.03		105	1	162	21	98
FTD7	1083433	53	54	0.1	0.08	450	1	101	23	74
FTD7	1083434	54	55	0.03		150	1	49	15	238

FTD7	1083435	55	56	0.03		-50	1	132	44	97
FTD7	1083436	56	57	0.01		-50	-1	48	60	89
FTD7	1083437	57	58	1.18		-50	1	146	100	119
FTD7	1083438	58	59	2.6		-50	6	64	61	100
FTD7	1083439	59	60	0.19		55	1	70	1255	262
FTD7	1083440	60	61	0.08		55	3	93	4290	738
FTD7	1083441	61	62	0.02		75	-1	43	22	183
FTD7	1083442	62	63	0.11		170	-1	98	15	250
FTD7	1083443	63	64	0.03	0.03	-50	-1	178	9	168
FTD7	1083444	64	65	0.1		100	1	63	126	308
FTD7	1083445	65	66	0.46		95	3	1365	533	365
FTD7	1083446	66	67	0.27		210	3	1025	2110	1155
FTD7	1083447	67	68	0.23		590	4	810	3090	3860
FTD7	1083448	68	69	0.17		115	2	485	296	1055
FTD7	1083449	69	70	0.47		125	2	972	452	538
FTD7	1083451	70	71	1.32		835	5	628	1065	67
FTD7	1083452	71	72	1.29		495	5	654	1025	1905
FTD7	1083453	72	73	0.64		260	3	701	340	344
FTD7	1083454	73	74	1.8		515	5	1200	486	1025
FTD7	1083455	74	75	0.2		-50	1	131	545	522
FTD7	1083456	75	76	0.44		50	2	525	520	724
FTD7	1083457	76	77	1.09		65	4	390	2240	1105
FTD7	1083458	77	78	0.81		145	3	746	228	684
FTD7	1083459	78	79	1.66		-50	6	699	2790	1585
FTD7	1083460	79	80	0.48	0.47	-50	2	692	525	1120
FTD7	1083461	80	81	0.09		-50	1	100	103	211
FTD7	1083462	81	82	0.73		-50	8	203	370	519
FTD7	1540001	82	83	-0.01	-0.01	-50	-1	28	21	170
FTD7	1540002	83	84	-0.01		-50	1	258	10	280
FTD7	1540003	84	85	-0.01		-50	-1	44	10	404
FTD7	1540004	85	86	-0.01		-50	-1	15	10	195
FTD7	1540005	86	87	-0.01		-50	-1	13	4	48
FTD7	1540006	87	88	-0.01		-50	-1	43	4	43
FTD7	1540007	88	89	-0.01		-50	-1	140	3	377
FTD7	1540008	89	90	-0.01		-50	1	479	-3	73

GOLDFIELDS EXPLORATION DRILL HOLE RECORD

HOLE NUMBER	FTD8	DRILLED BY	Almac Drilling Pty Ltd
PROJECT	Gog EL 12/2001	NORTHING	5405063.5
PROSPECT	Firetower	EASTING	445951.3
DESIGNED BY	TC	RL	600.2
LOGGED BY	TC	INCLINATION	-20
COMMENCED	Dec 01	AZIMUTH	0 AMG
FINISHED	Dec 01	EOH	126.6

PURPOSE

Test down dip continuity of Firetower Prospect Au mineralisation

SURVEY DATA

DEPTH	INC.	AZ.	DEPTH	INC.	AZ.	DEPTH	INC.	AZ.
0	-20	0						
100	-20	357						

DRILLING DATA

HOLE SIZE	DEPTH	COMMENTS
HQ	126.6	

SUMMARY

18 – 24 6m @ 0.4 g/t Au
43 – 63 20m @ 0.9 g/t Au
86 – 95 9m @ 3.1 g/t Au

DDH FTD8 Assay Results

Sample	Hole	From	To	Au	Au_R	Cu	Pb	Zn	Ag	As
1083464	FTD8	3.9	5	-0.01		568	15	252	-1	-50
1083465	FTD8	5	6	-0.01		262	4	225	-1	-50
1083466	FTD8	6	7	-0.01		616	14	301	-1	-50
1083467	FTD8	7	8	0.09		3400	19	395	6	-50
1083468	FTD8	8	9	0.03		1015	17	458	1	-50
1083469	FTD8	9	10	-0.01		285	13	133	-1	-50
1083470	FTD8	10	11	-0.01		317	8	183	-1	-50
1083471	FTD8	11	12	-0.01		86	67	219	-1	-50
1083472	FTD8	12	13	0.03		36	298	1745	-1	-50
1083473	FTD8	13	14	-0.01	-0.01	89	81	415	-1	-50
1083474	FTD8	14	15	0.04		34	45	109	-1	-50
1083475	FTD8	15	16	-0.01		28	86	233	-1	-50
1083476	FTD8	16	17	0.04		66	67	198	-1	-50
1083477	FTD8	17	18	0.05		39	50	352	-1	-50
1083478	FTD8	18	19	0.43		281	130	648	-1	130
1083479	FTD8	19	20	0.21		176	300	1845	-1	1180
1083480	FTD8	20	21	0.21		13	21	168	-1	-50
1083481	FTD8	21	22	0.19	0.17	4	24	129	-1	-50
1083482	FTD8	22	23	0.2		8	48	213	-1	-50
1083483	FTD8	23	24	1.24		31	67	212	2	780
1083484	FTD8	24	25	0.1		14	8	93	-1	65
1083485	FTD8	25	26	0.02	0.02	29	-3	81	-1	-50
1083486	FTD8	26	27	0.04		201	4	431	-1	-50
1083487	FTD8	27	28	0.17		1555	47	1535	2	435
1083488	FTD8	28	29	-0.01		22	4	167	-1	-50
1083489	FTD8	29	30	0.02		13	6	115	-1	-50
1083490	FTD8	30	31	0.03		7	10	81	-1	60
1083491	FTD8	31	32	-0.01		8	11	265	-1	-50
1083492	FTD8	32	33	0.15		11	7	164	-1	95
1083493	FTD8	33	34	0.04		4	19	103	-1	-50
1083494	FTD8	34	35	0.74		10	8	150	-1	-50
1083495	FTD8	35	36	0.62		8	12	159	-1	-50
1083496	FTD8	36	37	0.14		53	21	123	-1	115
1083497	FTD8	37	38	0.27		168	6	152	-1	85
1083498	FTD8	38	39	0.18	0.2	7	7	143	-1	60
1083499	FTD8	39	40	0.05		22	38	374	-1	95
1083501	FTD8	40	41	0.04		10	37	449	-1	95
1083502	FTD8	41	42	0.44		9	75	252	1	80
1083503	FTD8	42	43	0.08		11	33	119	-1	60
1083504	FTD8	43	44	1.22		15	88	162	2	155
1083505	FTD8	44	45	2.5		42	41	273	1	835
1083506	FTD8	45	46	0.56		20	121	154	1	2160
1083507	FTD8	46	47	0.7		16	106	113	1	145
1083508	FTD8	47	48	0.66		79	142	219	2	215
1083509	FTD8	48	49	0.18		24	30	219	1	415
1083510	FTD8	49	50	0.36		23	100	1105	1	1960
1083511	FTD8	50	51	0.15		40	63	394	1	115
1083512	FTD8	51	52	0.09		138	17	301	1	115
1083513	FTD8	52	53	0.27		59	9	324	-1	375
1083514	FTD8	53	54	0.25		246	11	255	1	510
1083515	FTD8	54	55	0.07		80	4	218	-1	165

1083516	FTD8	55	56	0.14		117	9	400	-1	885
1083517	FTD8	56	57	0.28		103	16	145	-1	1290
1083518	FTD8	57	58	8.85	8.55	65	9	261	5	810
1083519	FTD8	58	59	0.15		89	4	336	-1	465
1083520	FTD8	59	60	0.08		27	4	435	-1	330
1083521	FTD8	60	61	0.08		21	10	405	-1	195
1083522	FTD8	61	62	0.06		42	93	219	-1	65
1083523	FTD8	62	63	1.63		77	49	246	1	75
1083524	FTD8	63	64	0.34		43	27	110	-1	215
1083525	FTD8	64	65	0.04		34	10	74	-1	-50
1083526	FTD8	65	66	0.39		41	17	118	-1	1290
1083527	FTD8	66	67	0.13		212	132	1010	-1	175
1083528	FTD8	67	68	0.02		148	298	748	-1	-50
1083529	FTD8	68	69	0.02		187	142	758	-1	-50
1083530	FTD8	69	70	0.02		137	73	1150	-1	-50
1083531	FTD8	70	71	-0.01		175	92	794	-1	-50
1083532	FTD8	71	72	-0.01		436	2780	4650	2	-50
1083533	FTD8	72	73	0.03		85	144	1510	-1	-50
1083534	FTD8	73	74	0.05		44	229	1670	-1	95
1083535	FTD8	74	75	0.08		16	30	401	-1	-50
1083537	FTD8	76	77	0.05		85	30	71	-1	-50
1083538	FTD8	77	78	0.01		31	73	201	-1	-50
1083539	FTD8	78	79	0.01		42	89	2250	1	80
1083540	FTD8	79	80	0.05	0.05	48	28	151	1	190
1083541	FTD8	80	81	0.05		59	47	267	-1	-50
1083542	FTD8	81	82	0.25		58	70	402	1	-50
1083543	FTD8	82	83	0.11		263	51	220	1	55
1083544	FTD8	83	84	0.11		87	165	320	1	55
1083545	FTD8	84	85	0.02		82	456	302	1	-50
1083546	FTD8	85	86	0.21		331	555	677	1	110
1083547	FTD8	86	87	0.56		407	395	174	2	415
1083548	FTD8	87	88	0.16	0.18	71	61	72	-1	-50
1083549	FTD8	88	89	10.8	10.7	451	608	465	20	285
1083551	FTD8	89	90	0.14		147	77	168	-1	60
1083552	FTD8	90	91	0.05		203	43	242	-1	-50
1083553	FTD8	91	92	0.02		60	70	262	-1	-50
1083554	FTD8	92	93	1.28	1.16	681	54	914	2	1390
1083555	FTD8	93	94	9.35	8.9	421	145	293	4	3670
1083556	FTD8	94	95	5.8	5.55	290	419	454	7	465
1083557	FTD8	95	96	0.19		1815	4740	7500	5	490
1083558	FTD8	96	97	0.04		166	575	2130	2	225
1083559	FTD8	97	98	0.02		430	508	1730	2	85
1083560	FTD8	98	99	0.01	0.01	274	460	4080	1	100
1083561	FTD8	99	100	0.36		639	459	2440	2	270
1083562	FTD8	100	101	0.53		3140	191	417	4	525
1083563	FTD8	101	102	0.02		509	10	52	-1	-50
1083564	FTD8	102	103	0.01		593	8	48	-1	-50
1083565	FTD8	103	104	-0.01		77	9	52	-1	-50
1083566	FTD8	104	105	-0.01		707	10	46	-1	-50
1083567	FTD8	105	106	0.01		1230	7	41	1	-50
1083568	FTD8	106	107	-0.01		176	10	30	-1	-50
1083569	FTD8	107	108	-0.01		186	-3	50	-1	-50
1083570	FTD8	108	109	-0.01		14	8	37	-1	-50

1083571	FTD8	109	110	0.67		1265	-3	33	2	-50
1083572	FTD8	110	111	0.69		440	38	50	1	50
1083573	FTD8	111	112	0.02		300	12	99	-1	-50
1083574	FTD8	112	113	0.69		1845	11	65	2	-50
1083575	FTD8	113	114	0.02		280	11	49	-1	-50
1083576	FTD8	114	115	-0.01		90	10	53	-1	-50
1083577	FTD8	115	116	-0.01		353	11	55	-1	-50
1083578	FTD8	116	117	0.01		259	4	44	-1	-50
1083579	FTD8	117	118	0.23		1770	3	40	2	-50
1083580	FTD8	118	119	0.01		134	-3	30	-1	-50
1083581	FTD8	119	120	-0.01		108	-3	29	-1	-50
1083582	FTD8	120	121	-0.01	-0.01	61	9	30	-1	-50
1083583	FTD8	121	122	-0.01		113	7	35	-1	-50
1083584	FTD8	122	123	0.06		200	-3	48	-1	65
1083585	FTD8	123	124	-0.01	-0.01	66	57	369	-1	-50
1083586	FTD8	124	125	-0.01		175	28	241	-1	-50
1083587	FTD8	125	127	-0.01		514	27	402	1	-50

GOLDFIELDS EXPLORATION DRILL HOLE RECORD

HOLE NUMBER	FTD9	DRILLED BY	Almac Drilling Pty Ltd
PROJECT	Gog EL 12/2001	NORTHING	5405050
PROSPECT	Firetower	EASTING	446102
DESIGNED BY	TC	RL	629.7
LOGGED BY	TC	INCLINATION	-45
COMMENCED	Dec 01	AZIMUTH	358 AMG
FINISHED	Dec 01	EOH	111.7

PURPOSE

Test eastern extension of Firetower Prospect Au mineralisation.

SURVEY DATA

DEPTH	INC.	AZ.	DEPTH	INC.	AZ.	DEPTH	INC.	AZ.
0	-45	358						
20	-45	358						
100	-45	-43.5						

DRILLING DATA

HOLE SIZE	DEPTH	COMMENTS
HQ	111.7	

SUMMARY

47 – 62 15m @ 0.5 g/t Au

DDH FTD9 Assay results

Sample	Hole	From	To	Au	Au_R	Cu	Pb	Zn	Ag	As
1083589	FTD9	1.4	2	-0.01		154	65	763	-1	-50
1083590	FTD9	2	3	-0.01		45	28	902	-1	-50
1083591	FTD9	3	4	-0.01		18	5	53	-1	-50
1083592	FTD9	4	5	-0.01		14	22	46	-1	-50
1083593	FTD9	5	6	-0.01		14	6	58	-1	-50
1083594	FTD9	6	7	-0.01		20	7	58	-1	-50
1083595	FTD9	7	8	-0.01		13	-3	46	-1	-50
1083596	FTD9	8	9	-0.01		24	8	65	-1	-50
1083597	FTD9	9	10	-0.01	-0.01	25	-3	91	-1	-50
1083598	FTD9	10	11	-0.01	-0.01	251	102	98	-1	-50
1083599	FTD9	11	12	-0.01		49	8	93	-1	-50
1083801	FTD9	12	13	-0.01		52	17	103	-1	-50
1083802	FTD9	13	14	-0.01		104	29	406	-1	-50
1083803	FTD9	14	15	-0.01		39	25	295	-1	-50
1083804	FTD9	15	16	-0.01		68	11	123	1	-50
1083805	FTD9	16	17	-0.01		80	33	730	2	-50
1083806	FTD9	17	18	-0.01		292	12	252	1	-50
1083807	FTD9	18	19	-0.01		51	31	62	-1	-50
1083808	FTD9	19	20	-0.01		81	22	64	-1	-50
1083809	FTD9	20	21	-0.01		66	20	90	-1	-50
1083810	FTD9	21	22	-0.01		47	15	55	-1	-50
1083811	FTD9	22	23	-0.01		101	14	75	-1	-50
1083812	FTD9	23	24	-0.01		290	44	185	2	-50
1083813	FTD9	24	25	0.02		698	131	793	11	85
1083814	FTD9	25	26	-0.01		176	781	2760	2	-50
1083815	FTD9	26	27	-0.01		95	65	123	1	-50
1083816	FTD9	27	28	-0.01		44	77	107	-1	-50
1083817	FTD9	28	29	-0.01		102	616	2210	1	-50
1083818	FTD9	29	30	-0.01		112	208	782	1	-50
1083819	FTD9	30	31	-0.01		81	306	916	1	-50
1083820	FTD9	31	32	-0.01		97	686	1375	2	-50
1083821	FTD9	32	33	-0.01		235	1930	1995	3	-50
1083822	FTD9	33	34	-0.01		447	210	3520	3	-50
1083823	FTD9	34	35	-0.01	-0.01	22	41	219	-1	-50
1083824	FTD9	35	36	-0.01		96	253	976	-1	-50
1083825	FTD9	36	37	-0.01		84	31	91	-1	-50
1083826	FTD9	37	38	-0.01		52	68	1610	-1	-50
1083827	FTD9	38	39	0.01		242	5500	3070	5	-50
1083828	FTD9	39	40	0.01		150	7300	5700	6	-50
1083829	FTD9	40	41	-0.01		362	2070	5200	3	-50
1083830	FTD9	41	42	-0.01		221	5300	4110	5	-50
1083831	FTD9	42	43	-0.01		133	5100	2930	4	-50
1083832	FTD9	43	44	0.01	0.01	155	2910	5700	4	-50
1083833	FTD9	44	45	0.02		245	2380	4810	4	70
1083834	FTD9	45	46	0.01		283	5900	3670	5	-50
1083835	FTD9	46	47	0.01		54	1565	1615	1	-50
1083836	FTD9	47	48	0.42		126	242	131	2	-50
1083837	FTD9	48	49	0.57	0.49	102	32	83	-1	-50
1083838	FTD9	49	50	0.1		16	12	89	-1	-50
1083839	FTD9	50	51	0.12		60	944	1405	1	-50
1083840	FTD9	51	52	0.05		29	18	79	-1	-50

1083841	FTD9	52	53	0.11		29	60	77	-1	95
1083842	FTD9	53	54	0.16		77	519	291	1	245
1083843	FTD9	54	55	0.54	0.61	186	412	793	1	-50
1083844	FTD9	55	56	0.06		40	498	1225	1	145
1083845	FTD9	56	57	0.93	0.9	178	447	1860	2	1470
1083846	FTD9	57	58	0.3		196	1140	1340	2	485
1083847	FTD9	58	59	0.15		172	856	2160	1	525
1083848	FTD9	59	60	2.85	3	530	1995	6200	8	2600
1083849	FTD9	60	61	0.44		190	330	1290	1	815
1083851	FTD9	61	62	0.15		40	361	385	1	710
1083852	FTD9	62	63	0.01		26	32	70	-1	-50
1083853	FTD9	63	64	0.05		68	20	91	-1	-50
1083854	FTD9	64	65	-0.01		47	78	490	-1	-50
1083855	FTD9	65	66	-0.01		39	181	1730	-1	-50
1083856	FTD9	66	67	-0.01		21	253	533	-1	-50
1083857	FTD9	67	68	-0.01		19	319	491	-1	120
1083858	FTD9	68	69	-0.01		19	213	723	-1	-50
1083859	FTD9	69	70	0.09		43	173	763	-1	100
1083860	FTD9	70	71	-0.01		23	122	330	-1	120
1083861	FTD9	71	72	0.08		37	133	248	-1	160
1083862	FTD9	72	73	0.03		41	122	106	-1	-50
1083863	FTD9	73	74	-0.01		50	335	2200	-1	-50
1083864	FTD9	74	75	-0.01		23	257	290	-1	-50
1083865	FTD9	75	76	0.02	-0.01	25	203	337	-1	55
1083866	FTD9	76	77	0.1		20	77	250	-1	115
1083867	FTD9	77	78	0.01		34	175	83	-1	-50
1083868	FTD9	78	79	0.06		18	73	337	-1	-50
1083869	FTD9	79	80	0.04		18	197	431	-1	65
1083870	FTD9	80	81	0.02		40	225	907	-1	65
1083871	FTD9	81	82	0.02		44	284	957	-1	-50
1083872	FTD9	82	83	-0.01		54	355	1450	-1	-50
1083873	FTD9	83	84	-0.01	-0.01	72	398	2700	-1	-50
1083874	FTD9	84	85	-0.01		20	208	466	-1	-50
1083875	FTD9	85	86	-0.01		13	59	177	-1	-50
1083876	FTD9	86	87	-0.01		17	56	150	-1	60
1083877	FTD9	87	88	0.11		23	63	214	-1	150
1083878	FTD9	88	89	0.02		46	7	100	-1	265
1083879	FTD9	89	90	-0.01		14	26	241	-1	-50

GOLDFIELDS EXPLORATION DRILL HOLE RECORD

HOLE NUMBER	FTD10	DRILLED BY	Almac Drilling Pty Ltd
PROJECT	Gog EL 12/2001	NORTHING	5405035.5
PROSPECT	Firetower	EASTING	446295.2
DESIGNED BY	TC	RL	621.6
LOGGED BY	TC	INCLINATION	-35
COMMENCED	Jan 02	AZIMUTH	179.5 AMG
FINISHED	Jan 02	EOH	115

PURPOSE

Test soil As and Au anomaly and rock chip Au anomaly 300m east of Firetower Prospect..

SURVEY DATA

DEPTH	INC.	AZ.	DEPTH	INC.	AZ.	DEPTH	INC.	AZ.
0	-35	179.5						
24	-35	179.5						
75	-35.5	180						

DRILLING DATA

HOLE SIZE	DEPTH	COMMENTS
HQ	115	

SUMMARY

No significant results. Hole ended in ser-silica-py altered quartz porphyry. Anomalies unexplained.

DDH FTD10 Assay results

Sample	Hole	From	To	Au	Au_R	Cu	Pb	Zn	Ag	As
1083881	FTD10	2.8	4	-0.01		20	275	193	-1	-50
1083882	FTD10	4	5	-0.01		24	8	235	-1	-50
1083883	FTD10	5	6	-0.01		24	64	225	-1	-50
1083884	FTD10	6	7	-0.01		54	-3	218	-1	-50
1083885	FTD10	7	8	-0.01		104	35	222	-1	-50
1083886	FTD10	8	9	-0.01		215	12	208	-1	-50
1083887	FTD10	9	10	-0.01		38	33	260	-1	-50
1083888	FTD10	10	11	-0.01		16	26	314	-1	-50
1083889	FTD10	11	12	-0.01		14	74	452	-1	-50
1083890	FTD10	12	13	-0.01	-0.01	34	69	460	-1	-50
1083891	FTD10	13	14	-0.01		22	98	469	-1	-50
1083892	FTD10	14	15	-0.01		26	45	267	-1	-50
1083893	FTD10	15	16	-0.01		70	65	398	-1	-50
1083894	FTD10	16	17	-0.01		33	49	309	-1	-50
1083895	FTD10	17	18	-0.01		23	21	516	-1	-50
1083896	FTD10	18	19	-0.01		29	12	368	-1	-50
1083897	FTD10	19	20	-0.01		21	8	279	-1	-50
1083898	FTD10	20	21	-0.01		16	8	238	-1	-50
1083899	FTD10	21	22	-0.01	-0.01	17	8	94	-1	-50
1083901	FTD10	22	23	-0.01		15	4	134	-1	-50
1083902	FTD10	23	24	-0.01		25	10	169	-1	-50
1083903	FTD10	24	25	-0.01		247	4	145	-1	-50
1083904	FTD10	25	26	-0.01	-0.01	15	5	113	-1	-50
1083905	FTD10	26	27	-0.01		22	3	187	-1	-50
1083906	FTD10	27	28	-0.01		75	22	106	1	-50
1083907	FTD10	28	29	-0.01		43	21	84	1	-50
1083908	FTD10	29	30	-0.01		35	10	97	-1	-50
1083909	FTD10	30	31	0.02		54	8	163	-1	90
1083910	FTD10	31	32	0.01		92	12	79	1	-50
1083911	FTD10	32	33	-0.01		45	30	62	1	70
1083912	FTD10	33	34	-0.01		42	46	51	1	65
1083913	FTD10	34	35	-0.01		30	50	89	1	75
1083914	FTD10	35	36	-0.01		17	24	70	-1	-50
1083915	FTD10	36	37	-0.01	-0.01	18	12	136	-1	-50
1083916	FTD10	37	38	-0.01		30	10	141	-1	-50
1083917	FTD10	38	39	-0.01		9	4	127	-1	-50
1083918	FTD10	39	40	-0.01		4	-3	147	-1	-50
1083919	FTD10	40	41	-0.01		4	4	97	-1	-50
1083920	FTD10	41	42	-0.01		4	3	122	-1	-50
1083921	FTD10	42	43	-0.01		11	5	365	-1	-50
1083922	FTD10	43	44	-0.01		11	5	65	-1	-50
1083923	FTD10	44	45	-0.01		5	4	81	-1	-50
1083924	FTD10	45	46	0.04		3	5	125	-1	-50
1083925	FTD10	46	47	-0.01		11	-3	141	-1	-50
1083926	FTD10	47	48	-0.01		20	-3	78	-1	-50
1083927	FTD10	48	49	-0.01		23	8	71	-1	-50
1083928	FTD10	49	50	-0.01		30	5	70	-1	-50
1083929	FTD10	50	51	-0.01		26	-3	266	-1	-50
1083930	FTD10	51	52	-0.01		32	3	321	-1	-50
1083931	FTD10	52	53	-0.01		21	4	497	-1	-50
1083932	FTD10	53	54	-0.01		25	5	227	-1	-50

1083933	FTD10	54	55	-0.01		30	14	140	-1	-50
1083934	FTD10	55	56	-0.01		27	6	96	-1	-50
1083935	FTD10	56	57	-0.01		37	12	252	-1	-50
1083936	FTD10	57	58	-0.01		45	7	79	-1	55
1083937	FTD10	58	59	-0.01		58	26	60	-1	60
1083938	FTD10	59	60	-0.01		66	25	213	-1	-50
1083939	FTD10	60	61	-0.01		43	20	202	-1	235
1083940	FTD10	61	62	-0.01		38	3	220	-1	-50
1083941	FTD10	62	66	-0.01		30	4	200	-1	-50
1083945	FTD10	66	67	-0.01		33	6	165	-1	-50
1083946	FTD10	67	68	-0.01		81	-3	106	-1	-50
1083947	FTD10	68	69	-0.01	-0.01	20	5	276	-1	-50
1083948	FTD10	69	70	-0.01		22	11	277	-1	-50
1083949	FTD10	70	71	-0.01		33	29	200	-1	-50
1083951	FTD10	71	72	-0.01		18	17	380	-1	-50
1083952	FTD10	72	73	-0.01		39	13	407	-1	-50
1083953	FTD10	73	74	-0.01		7	13	81	-1	-50
1083954	FTD10	74	75	-0.01		8	9	49	-1	-50
1083955	FTD10	75	76	-0.01		24	19	226	-1	-50
1083956	FTD10	76	77	-0.01		11	7	46	-1	-50
1083957	FTD10	77	78	-0.01		15	10	143	-1	-50
1083958	FTD10	78	79	-0.01		7	4	96	-1	-50
1083959	FTD10	79	80	-0.01		17	4	40	-1	-50
1083960	FTD10	80	81	-0.01		19	4	28	-1	-50
1083961	FTD10	81	82	-0.01		10	-3	35	-1	-50
1083962	FTD10	82	83	-0.01		13	3	69	-1	-50
1083963	FTD10	83	84	-0.01		18	15	170	-1	-50
1083964	FTD10	84	85	-0.01		10	12	63	-1	-50
1083965	FTD10	85	86	-0.01	-0.01	7	7	14	-1	-50
1083966	FTD10	86	87	-0.01		12	6	16	-1	-50
1083967	FTD10	87	88	-0.01		14	5	168	-1	-50
1083968	FTD10	88	89	-0.01		9	5	48	-1	-50
1083969	FTD10	89	90	-0.01		232	-3	33	-1	-50
1083971	FTD10	90	91	-0.01		9	8	21	-1	-50
1083972	FTD10	91	92	-0.01		9	3	152	-1	-50
1083973	FTD10	92	93	-0.01		26	13	494	-1	-50
1083974	FTD10	93	94	-0.01		8	4	22	1	-50
1083975	FTD10	94	95	-0.01		14	5	44	-1	-50
1083976	FTD10	95	96	0.02		18	7	41	-1	-50
1083977	FTD10	96	97	-0.01		9	18	25	-1	-50
1083978	FTD10	97	98	-0.01		7	7	173	-1	-50
1083979	FTD10	98	99	-0.01		61	11	370	-1	-50
1083980	FTD10	99	100	-0.01		102	17	612	-1	-50
1083981	FTD10	100	101	-0.01		30	11	62	1	-50
1083982	FTD10	101	102	-0.01		26	6	31	-1	-50
1083983	FTD10	102	103	-0.01		37	7	11	-1	-50
1083984	FTD10	103	104	-0.01		25	9	17	-1	-50
1083985	FTD10	104	105	-0.01		24	13	441	-1	-50
1083986	FTD10	105	106	-0.01		30	9	108	-1	-50
1083987	FTD10	106	107	-0.01		11	6	19	-1	-50
1083988	FTD10	107	108	-0.01		14	4	12	-1	-50
1083989	FTD10	108	109	-0.01		52	9	294	-1	-50
1083990	FTD10	109	110	-0.01	-0.01	15	15	1710	-1	-50

1083991	FTD10	110	111	-0.01	15	16	150	-1	-50
1083992	FTD10	111	112	-0.01	27	44	346	-1	-50
1083993	FTD10	112	113	-0.01	25	8	74	-1	-50
1083995	FTD10	113	115	-0.01	37	14	143	-1	-50

GOLDFIELDS EXPLORATION DRILL HOLE RECORD

HOLE NUMBER	FTD11	DRILLED BY	Almac Drilling Pty Ltd
PROJECT	Gog EL 12/2001	NORTHING	5405039.8
PROSPECT	Firetower	EASTING	445854.7
DESIGNED BY	TC	RL	537.3
LOGGED BY	TC	INCLINATION	-30
COMMENCED	Jan 02	AZIMUTH	0 AMG
FINISHED	Jan 02	EOH	138.7

PURPOSE

Test western extension of Firetower Prospect..

SURVEY DATA

DEPTH	INC.	AZ.	DEPTH	INC.	AZ.	DEPTH	INC.	AZ.
0	-30	0						
30	-30	0						
138	-28	0						

DRILLING DATA

HOLE SIZE	DEPTH	COMMENTS
HQ	138.7	

SUMMARY

6 – 10 4m @ 0.9 g/t Au
27 – 64 37m @ 0.6 g/t Au

DDH FTD11 Assay Results

Sample	Hole	From	To	Au	Au_R	Cu	Pb	Zn	Ag	As
1540010	FTD11	3.5	4	0.04	0.05	21	14	66	-1	80
1540011	FTD11	4	5	0.09		12	3	58	1	240
1540012	FTD11	5	6	0.13		23	7	31	1	365
1540013	FTD11	6	7	1.22		23	9	53	1	425
1540014	FTD11	7	8	0.55		11	-3	80	1	280
1540015	FTD11	8	9	0.25		16	-3	80	1	255
1540016	FTD11	9	10	1.58		9	-3	59	1	955
1540017	FTD11	10	11	0.07		9	-3	51	1	190
1540018	FTD11	11	12	0.34		16	4	41	1	170
1540019	FTD11	12	13	0.03	0.03	45	7	25	-1	315
1540020	FTD11	13	14	0.28		18	9	39	1	340
1540021	FTD11	14	15	0.25		17	10	17	-1	-50
1540022	FTD11	15	16	0.16		8	-3	16	-1	165
1540023	FTD11	16	17	0.04		7	3	13	-1	305
1540024	FTD11	17	18	-0.01		7	-3	17	-1	-50
1540025	FTD11	18	19	-0.01		11	5	59	-1	120
1540026	FTD11	19	20	0.11		8	-3	39	-1	305
1540027	FTD11	20	21	0.04		29	5	20	-1	120
1540028	FTD11	21	22	0.12		43	19	26	-1	275
1540029	FTD11	22	23	0.08		23	57	120	-1	425
1540030	FTD11	23	24	0.04		12	6	76	-1	-50
1540031	FTD11	24	25	0.02		40	7	18	-1	-50
1540032	FTD11	25	26	0.15		14	-3	70	-1	-50
1540033	FTD11	26	27	0.09		19	3	45	-1	-50
1540034	FTD11	27	28	0.43		8	3	139	-1	-50
1540035	FTD11	28	29	1.42	1.53	10	-3	69	-1	-50
1540036	FTD11	29	30	0.54		23	-3	147	-1	-50
1540037	FTD11	30	31	0.25		12	-3	156	-1	-50
1540038	FTD11	31	32	0.28		14	-3	105	-1	-50
1540039	FTD11	32	33	0.93		13	3	112	1	-50
1540040	FTD11	33	34	0.72		16	3	290	2	-50
1540041	FTD11	34	35	0.2		11	6	136	2	-50
1540042	FTD11	35	36	0.14		13	5	138	2	-50
1540043	FTD11	36	37	0.4		987	6	112	3	1170
1540044	FTD11	37	38	0.1	0.09	13	-3	90	-1	-50
1540045	FTD11	38	39	0.17		11	3	69	-1	-50
1540046	FTD11	39	40	0.31		13	6	134	1	2270
1540047	FTD11	40	41	0.48		62	10	256	1	690
1540048	FTD11	41	42	0.62		194	10	316	2	1440
1540049	FTD11	42	43	0.63		95	11	2260	3	715
1540051	FTD11	43	44	0.82		741	7	119	4	785
1540052	FTD11	44	45	0.77		2180	12	115	6	2460
1540053	FTD11	45	46	0.23		102	7	158	3	1170
1540054	FTD11	46	47	0.18		31	-3	209	1	720
1540055	FTD11	47	48	0.88		244	-3	167	2	3910
1540056	FTD11	48	49	2.2		492	21	255	4	3140
1540057	FTD11	49	50	0.71		282	6	376	2	3020
1540058	FTD11	50	51	1.54		108	12	380	3	4170
1540059	FTD11	51	52	1.18		215	10	642	2	7500
1540060	FTD11	52	53	0.87		97	-3	256	1	3540
1540061	FTD11	53	54	0.63	0.68	362	-3	188	1	1960

1540062	FTD11	54	55	0.49		3450	-3	202	3	1110
1540063	FTD11	55	56	0.12		1020	-3	122	2	410
1540064	FTD11	56	57	0.28		208	-3	140	3	770
1540065	FTD11	57	58	0.31		1155	-3	126	-1	1650
1540066	FTD11	58	59	0.42		72	4	153	1	1880
1540067	FTD11	59	60	0.05		779	-3	116	1	315
1540068	FTD11	60	61	0.03		196	-3	90	1	120
1540069	FTD11	61	62	0.64	0.62	67	-3	112	1	4210
1540070	FTD11	62	63	0.43	0.42	33	39	887	-1	120
1540071	FTD11	63	64	3.3		10200	39	1100	2	100
1540072	FTD11	64	65	0.09		46	41	985	2	80
1540073	FTD11	65	66	-0.01		41	15	161	1	60
1540074	FTD11	66	67	0.01		17	25	141	1	-50
1540075	FTD11	67	68	0.01		19	8	53	2	-50
1540076	FTD11	68	69	-0.01		13	8	27	2	-50
1540077	FTD11	69	70	-0.01		15	3	42	-1	-50
1540078	FTD11	70	71	-0.01		16	5	87	3	-50
1540079	FTD11	71	72	-0.01	-0.01	21	6	144	-1	-50
1540080	FTD11	72	73	-0.01		13	5	40	-1	-50
1540081	FTD11	73	74	-0.01		10	-3	37	-1	-50
1540082	FTD11	74	75	0.02		111	42	1090	6	145
1540083	FTD11	75	76	0.03		114	23	95	4	155
1540084	FTD11	76	77	0.01		17	7	268	-1	-50
1540085	FTD11	77	78	0.01		64	5	101	1	-50
1540086	FTD11	100	101	0.14		885	-3	188	1	-50
1540087	FTD11	101	102	0.03		314	8	65	1	-50
1540088	FTD11	102	103	0.11		106	4	46	-1	-50
1540089	FTD11	103	104	0.06		181	3	47	-1	-50
1540090	FTD11	104	105	-0.01		24	6	206	-1	-50

GOLDFIELDS EXPLORATION DRILL HOLE RECORD

HOLE NUMBER	FTD12	DRILLED BY	Almac Drilling Pty Ltd
PROJECT	Gog EL 12/2001	NORTHING	5405067.7
PROSPECT	Firetower	EASTING	445742
DESIGNED BY	TC	RL	499.7
LOGGED BY	TC	INCLINATION	-20
COMMENCED	Jan 02	AZIMUTH	0 AMG
FINISHED	Feb 02	EOH	126

PURPOSE

Test western extension of Firetower Prospect..

SURVEY DATA

DEPTH	INC.	AZ.	DEPTH	INC.	AZ.	DEPTH	INC.	AZ.
0	-20	0						
50	-21.5	359						
100	-23	358						

DRILLING DATA

HOLE SIZE	DEPTH	COMMENTS
HQ	126	

SUMMARY

78 – 94 16m @ 0.5 g/t Au

DDH FTD12 Assay results

BHID	Spl_ID	From	To	Au_G	Aur_G	Cu_A	Pb_A	Zn_A	Ag_A	As_A
FTD12	1540092	19.3	20	0.01		6	8	152	-1	-50
FTD12	1540093	30	31	0.01		14	7	152	-1	-50
FTD12	1540094	31	32	0.02		4	3	294	-1	-50
FTD12	1540095	32	33	-0.01		7	-3	314	-1	-50
FTD12	1540096	33	34	0.06		11	-3	292	-1	-50
FTD12	1540097	34	35	0.03		12	-3	171	-1	-50
FTD12	1540098	35	36	0.01		28	11	150	-1	-50
FTD12	1540099	36	45	0.02		761	8	508	-1	-50
FTD12	1540101	45	49	0.02	0.03	814	13	121	-1	-50
FTD12	1540102	49	50	0.04		1040	-3	97	-1	-50
FTD12	1540103	50	51	0.01		353	12	139	-1	-50
FTD12	1540104	51	52	0.02		334	26	118	-1	-50
FTD12	1540105	52	53	0.02		141	26	43	-1	-50
FTD12	1540106	53	54	0.01		156	27	39	-1	-50
FTD12	1540107	54	55	0.02	-0.01	159	75	126	-1	-50
FTD12	1540108	55	56	0.03		141	205	231	2	-50
FTD12	1540109	56	57	0.04		235	249	1040	1	70
FTD12	1540110	57	58	0.06		47	56	262	-1	-50
FTD12	1540111	58	59	0.1		13	18	109	-1	-50
FTD12	1540112	59	60	0.03		7	4	79	-1	-50
FTD12	1540113	60	61	0.29		8	8	59	-1	-50
FTD12	1540114	61	62	0.21		6	-3	79	-1	-50
FTD12	1540115	62	63	0.11		6	15	162	-1	-50
FTD12	1540116	63	64	-0.01		4	15	159	-1	-50
FTD12	1540117	64	65	0.07		7	19	103	-1	-50
FTD12	1540118	65	66	0.05		6	-3	75	-1	-50
FTD12	1540119	66	67	0.04		6	8	78	-1	-50
FTD12	1540120	67	68	0.02		5	3	92	-1	-50
FTD12	1540121	68	69	0.01	0.01	5	4	155	1	-50
FTD12	1540122	69	70	-0.01		6	-3	291	-1	-50
FTD12	1540123	70	71	0.02		21	20	213	-1	-50
FTD12	1540124	71	72	0.01		9	10	84	-1	-50
FTD12	1540125	72	73	0.06		7	19	92	-1	-50
FTD12	1540126	73	74	0.08	0.03	6	20	101	-1	-50
FTD12	1540127	74	75	0.13		6	7	94	-1	-50
FTD12	1540128	75	76	0.01		9	38	332	1	-50
FTD12	1540129	76	77	0.01		12	47	218	1	-50
FTD12	1540131	77	78	0.27		9	52	191	-1	-50
FTD12	1540132	78	79	0.53		37	56	997	1	-50
FTD12	1540133	79	80	0.23		22	20	172	4	-50
FTD12	1540134	80	81	0.61		24	15	118	-1	-50
FTD12	1540135	81	82	0.37		52	12	96	-1	-50
FTD12	1540136	82	83	1.15	1.06	9	26	134	-1	-50
FTD12	1540137	83	84	0.22		9	15	124	-1	-50
FTD12	1540138	84	85	0.27		9	8	33	-1	-50
FTD12	1540139	85	86	0.74		4	3	15	-1	-50
FTD12	1540140	86	87	0.29		25	8	23	-1	-50
FTD12	1540141	87	88	0.39		11	-3	43	-1	-50
FTD12	1540142	88	89	0.36		21	5	31	-1	-50
FTD12	1540143	89	90	0.85		6	-3	85	-1	-50
FTD12	1540144	90	91	0.39		6	5	50	-1	-50

FTD12	1540145	91	92	0.17		6	5	46	-1	-50
FTD12	1540146	92	93	0.46		6	-3	64	-1	-50
FTD12	1540147	93	94	0.66	0.58	9	4	66	-1	-50
FTD12	1540148	94	95	0.13		9	5	44	-1	-50
FTD12	1540149	95	96	0.22		10	3	45	-1	-50
FTD12	1540150	96	97	0.09		8	-3	50	-1	-50
FTD12	1540151	97	98	0.07	0.11	9	3	15	-1	-50
FTD12	1540152	98	99	-0.01		7	5	32	-1	-50
FTD12	1540153	99	100	0.18	0.19	8	13	14	-1	-50
FTD12	1540154	100	101	0.01		28	8	26	-1	-50
FTD12	1540155	101	102	0.01		12	10	47	-1	-50
FTD12	1540156	102	103	0.01		76	68	107	-1	-50
FTD12	1540157	103	104	-0.01		14	18	77	-1	-50
FTD12	1540158	104	105	0.06		15	14	345	-1	-50
FTD12	1540159	105	106	0.19	0.19	34	19	959	-1	175
FTD12	1540161	106	107	0.01		13	9	85	-1	-50
FTD12	1540162	107	108	-0.01		8	-3	126	-1	-50
FTD12	1540163	108	109	-0.01		9	11	133	-1	-50
FTD12	1540164	109	110	0.02		14	10	134	-1	-50
FTD12	1540165	110	111	-0.01		30	25	191	-1	-50
FTD12	1540166	111	112	0.01		44	20	148	-1	-50
FTD12	1540167	112	113	0.04		75	19	60	-1	-50
FTD12	1540168	113	114	0.3	0.29	77	22	39	-1	-50
FTD12	1540169	114	115	0.02		8	22	36	-1	-50
FTD12	1540170	115	116	0.21	0.15	9	25	38	-1	-50

Appendix 2
Ground Magnetic survey
TMI data and point locations

Line	East	North	TMI	E_AMG	N_AMG
2700	2700.0	4600.0	61984.0	446244	5404788
2700	2700.0	4605.0	62006.4	446243	5404793
2700	2700.0	4610.0	62023.8	446242	5404798
2700	2700.0	4615.0	62068.7	446241	5404803
2700	2700.0	4620.0	62102.2	446241	5404808
2700	2700.0	4625.0	62122.9	446240	5404813
2700	2700.0	4630.0	62131.2	446239	5404818
2700	2700.0	4635.0	62133.9	446239	5404823
2700	2700.0	4640.0	62140.8	446238	5404827
2700	2700.0	4645.0	62137.4	446237	5404832
2700	2700.0	4650.0	62141.6	446237	5404837
2700	2700.0	4655.0	62127.4	446236	5404842
2700	2700.0	4660.0	62135.5	446235	5404847
2700	2700.0	4665.0	62142.3	446235	5404852
2700	2700.0	4670.0	62118.9	446234	5404857
2700	2700.0	4675.0	62106.1	446233	5404862
2700	2700.0	4680.0	62070.6	446232	5404867
2700	2700.0	4685.0	62036.3	446232	5404872
2700	2700.0	4690.0	62069.3	446231	5404877
2700	2700.0	4695.0	62071.5	446230	5404882
2700	2700.0	4700.0	62060.4	446230	5404887
2700	2700.0	4705.0	62070.4	446229	5404892
2700	2700.0	4710.0	62070.7	446228	5404897
2700	2700.0	4715.0	62105.9	446228	5404902
2700	2700.0	4720.0	62076.0	446227	5404907
2700	2700.0	4725.0	62046.7	446226	5404912
2700	2700.0	4730.0	62027.3	446225	5404917
2700	2700.0	4735.0	62016.9	446225	5404922
2700	2700.0	4740.0	61999.1	446224	5404927
2700	2700.0	4745.0	61977.1	446223	5404931
2700	2700.0	4750.0	61944.9	446223	5404936
2700	2700.0	4755.0	61945.2	446222	5404941
2700	2700.0	4760.0	61900.6	446221	5404946
2700	2700.0	4765.0	61926.8	446221	5404951
2700	2700.0	4770.0	61888.7	446220	5404956
2700	2700.0	4775.0	61891.9	446219	5404961
2700	2700.0	4780.0	61860.8	446219	5404966
2700	2700.0	4785.0	61895.0	446218	5404971
2700	2700.0	4790.0	61876.6	446217	5404976
2700	2700.0	4795.0	61874.7	446216	5404981
2700	2700.0	4800.0	61864.3	446216	5404986
2700	2700.0	4805.0	61837.6	446215	5404991
2700	2700.0	4810.0	61843.0	446214	5404996
2700	2700.0	4815.0	61819.5	446214	5405001
2700	2700.0	4820.0	61841.9	446213	5405006
2700	2700.0	4825.0	61823.5	446212	5405011
2700	2700.0	4830.0	61805.2	446212	5405016
2700	2700.0	4835.0	61794.1	446211	5405021
2700	2700.0	4840.0	61802.9	446210	5405026
2700	2700.0	4845.0	61762.2	446209	5405030
2700	2700.0	4850.0	61761.4	446209	5405035
2700	2700.0	4855.0	61751.6	446208	5405040

2700	2700.0	4860.0	61741.3	446207	5405045
2700	2700.0	4865.0	61776.3	446207	5405050
2700	2700.0	4870.0	61830.7	446206	5405055
2700	2700.0	4875.0	61835.7	446205	5405060
2700	2700.0	4880.0	61847.3	446205	5405065
2700	2700.0	4885.0	61813.4	446204	5405070
2700	2700.0	4890.0	61842.0	446203	5405075
2700	2700.0	4895.0	61831.6	446203	5405080
2700	2700.0	4900.0	61810.7	446202	5405085
2700	2700.0	4905.0	61754.1	446201	5405090
2700	2700.0	4910.0	61728.1	446200	5405095
2700	2700.0	4915.0	61844.9	446200	5405100
2700	2700.0	4920.0	61917.8	446199	5405105
2700	2700.0	4925.0	61841.5	446198	5405110
2700	2700.0	4930.0	61801.6	446198	5405115
2700	2700.0	4935.0	61811.1	446197	5405120
2700	2700.0	4940.0	61752.6	446196	5405125
2700	2700.0	4945.0	61790.1	446196	5405130
2700	2700.0	4950.0	61800.7	446195	5405134
2700	2700.0	4955.0	61794.6	446194	5405139
2700	2700.0	4960.0	61743.2	446193	5405144
2700	2700.0	4965.0	61727.0	446193	5405149
2700	2700.0	4970.0	61710.0	446192	5405154
2700	2700.0	4975.0	61695.2	446191	5405159
2700	2700.0	4980.0	61679.8	446191	5405164
2700	2700.0	4985.0	61675.7	446190	5405169
2700	2700.0	4990.0	61639.5	446189	5405174
2700	2700.0	4995.0	61665.7	446189	5405179
2700	2700.0	5000.0	61636.4	446188	5405184
2700	2700.0	5005.0	61624.0	446187	5405189
2700	2700.0	5010.0	61595.0	446187	5405194
2700	2700.0	5015.0	61542.7	446186	5405199
2700	2700.0	5020.0	61492.2	446185	5405204
2700	2700.0	5025.0	61474.0	446184	5405209
2700	2700.0	5030.0	61433.4	446184	5405214
2700	2700.0	5035.0	61553.2	446183	5405219
2700	2700.0	5040.0	61978.4	446182	5405224
2700	2700.0	5045.0	62250.2	446182	5405229
2700	2700.0	5050.0	62309.8	446181	5405233
2700	2700.0	5055.0	62529.5	446180	5405238
2700	2700.0	5060.0	62520.2	446180	5405243
2700	2700.0	5065.0	62613.6	446179	5405248
2700	2700.0	5070.0	62660.5	446178	5405253
2700	2700.0	5075.0	62495.3	446177	5405258
2700	2700.0	5080.0	62327.4	446177	5405263
2700	2700.0	5085.0	62198.3	446176	5405268
2700	2700.0	5090.0	62186.2	446175	5405273
2700	2700.0	5095.0	62133.3	446175	5405278
2700	2700.0	5100.0	62071.7	446174	5405283
2800	2800.0	4600.0	62028.5	446301	5404784
2800	2800.0	4605.0	62044.4	446301	5404789
2800	2800.0	4610.0	62055.5	446301	5404794
2800	2800.0	4615.0	62061.2	446300	5404799

2800	2800.0	4620.0	62072.2	446300	5404804
2800	2800.0	4625.0	62065.9	446300	5404809
2800	2800.0	4630.0	62074.1	446300	5404814
2800	2800.0	4635.0	62085.2	446299	5404819
2800	2800.0	4640.0	62138.2	446299	5404824
2800	2800.0	4645.0	62141.0	446299	5404829
2800	2800.0	4650.0	62139.1	446299	5404834
2800	2800.0	4655.0	62140.4	446298	5404839
2800	2800.0	4660.0	62145.2	446298	5404844
2800	2800.0	4665.0	62134.4	446298	5404849
2800	2800.0	4670.0	62103.1	446298	5404854
2800	2800.0	4675.0	62087.6	446297	5404859
2800	2800.0	4680.0	62066.0	446297	5404864
2800	2800.0	4685.0	62059.2	446297	5404869
2800	2800.0	4690.0	62039.7	446296	5404874
2800	2800.0	4695.0	62028.7	446296	5404879
2800	2800.0	4700.0	62056.3	446296	5404884
2800	2800.0	4705.0	62121.6	446296	5404889
2800	2800.0	4710.0	62210.5	446295	5404894
2800	2800.0	4715.0	62248.1	446295	5404899
2800	2800.0	4720.0	62208.4	446295	5404904
2800	2800.0	4725.0	62157.9	446295	5404909
2800	2800.0	4730.0	62060.8	446294	5404914
2800	2800.0	4735.0	62031.9	446294	5404919
2800	2800.0	4740.0	61998.0	446294	5404923
2800	2800.0	4745.0	61983.6	446294	5404928
2800	2800.0	4750.0	61943.1	446293	5404933
2800	2800.0	4755.0	61929.9	446293	5404938
2800	2800.0	4760.0	61899.2	446293	5404943
2800	2800.0	4765.0	61866.8	446293	5404948
2800	2800.0	4770.0	61856.0	446292	5404953
2800	2800.0	4775.0	61883.0	446292	5404958
2800	2800.0	4780.0	61866.0	446292	5404963
2800	2800.0	4785.0	61874.5	446291	5404968
2800	2800.0	4790.0	61853.5	446291	5404973
2800	2800.0	4795.0	61836.0	446291	5404978
2800	2800.0	4800.0	61818.6	446291	5404983
2800	2800.0	4805.0	61848.4	446290	5404988
2800	2800.0	4810.0	61826.9	446290	5404993
2800	2800.0	4815.0	61845.9	446290	5404998
2800	2800.0	4820.0	61825.7	446290	5405003
2800	2800.0	4825.0	61824.4	446289	5405008
2800	2800.0	4830.0	61769.0	446289	5405013
2800	2800.0	4835.0	61782.8	446289	5405018
2800	2800.0	4840.0	61792.5	446289	5405023
2800	2800.0	4845.0	61789.9	446288	5405028
2800	2800.0	4850.0	61853.2	446288	5405033
2800	2800.0	4855.0	61844.3	446288	5405038
2800	2800.0	4860.0	61847.9	446288	5405043
2800	2800.0	4865.0	61842.7	446287	5405048
2800	2800.0	4870.0	61846.1	446287	5405053
2800	2800.0	4875.0	61835.3	446287	5405058
2800	2800.0	4880.0	61779.6	446287	5405063

2800	2800.0	4885.0	61822.3	446286	5405068
2800	2800.0	4890.0	61820.2	446286	5405073
2800	2800.0	4895.0	61769.0	446286	5405078
2800	2800.0	4900.0	61781.0	446285	5405083
2800	2800.0	4905.0	61762.2	446285	5405088
2800	2800.0	4910.0	61766.5	446285	5405093
2800	2800.0	4915.0	61768.6	446285	5405098
2800	2800.0	4920.0	61736.4	446284	5405103
2800	2800.0	4925.0	61716.4	446284	5405108
2800	2800.0	4930.0	61716.9	446284	5405113
2800	2800.0	4935.0	61710.7	446284	5405118
2800	2800.0	4940.0	61712.4	446283	5405123
2800	2800.0	4945.0	61690.9	446283	5405128
2800	2800.0	4950.0	61662.2	446283	5405133
2800	2800.0	4955.0	62027.6	446283	5405138
2800	2800.0	4960.0	61997.8	446282	5405143
2800	2800.0	4965.0	61779.4	446282	5405148
2800	2800.0	4970.0	61720.3	446282	5405153
2800	2800.0	4975.0	61660.3	446282	5405158
2800	2800.0	4980.0	61674.7	446281	5405163
2800	2800.0	4985.0	61654.0	446281	5405168
2800	2800.0	4990.0	61644.4	446281	5405173
2800	2800.0	4995.0	61669.2	446280	5405178
2800	2800.0	5000.0	61633.2	446280	5405183
2800	2800.0	5005.0	61660.2	446280	5405188
2800	2800.0	5010.0	61649.9	446280	5405193
2800	2800.0	5015.0	61614.0	446279	5405198
2800	2800.0	5020.0	61609.9	446279	5405203
2800	2800.0	5025.0	61580.1	446279	5405208
2800	2800.0	5030.0	61565.4	446279	5405213
2800	2800.0	5035.0	61527.8	446278	5405218
2800	2800.0	5040.0	61537.6	446278	5405223
2800	2800.0	5045.0	61569.1	446278	5405228
2800	2800.0	5050.0	61561.1	446278	5405233
2800	2800.0	5055.0	61562.4	446277	5405238
2800	2800.0	5060.0	61586.5	446277	5405243
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3400	3400.0	4920.0	61673.3	446889	5405157
3400	3400.0	4925.0	61643.3	446888	5405162
3400	3400.0	4930.0	61702.7	446888	5405167
3400	3400.0	4935.0	61635.6	446887	5405171
3400	3400.0	4940.0	61692.2	446886	5405176
3400	3400.0	4945.0	61634.1	446886	5405181
3400	3400.0	4950.0	61737.9	446885	5405186
3400	3400.0	4955.0	61740.4	446884	5405191
3400	3400.0	4960.0	61672.8	446884	5405196
3400	3400.0	4965.0	61689.1	446883	5405201
3400	3400.0	4970.0	61553.1	446883	5405206
3400	3400.0	4975.0	61578.7	446882	5405211
3400	3400.0	4980.0	61550.5	446881	5405216
3400	3400.0	4985.0	61662.0	446881	5405221
3400	3400.0	4990.0	61619.3	446880	5405226
3400	3400.0	4995.0	61658.9	446880	5405231
3400	3400.0	5000.0	61704.9	446879	5405236
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3500	3500.0	4495.0	61813.6	447059	5404734
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3500	3500.0	4515.0	61808.5	447055	5404753
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3500	3500.0	4525.0	61798.9	447053	5404763
3500	3500.0	4530.0	61802.0	447053	5404768
3500	3500.0	4535.0	61800.8	447052	5404773
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3500	3500.0	4560.0	61791.2	447047	5404798
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3700	3700.0	4840.0	61665.6	447178	5405094
3700	3700.0	4845.0	61618.9	447178	5405099
3700	3700.0	4850.0	61618.7	447177	5405104
3700	3700.0	4855.0	61647.0	447177	5405109
3700	3700.0	4860.0	61627.0	447176	5405114
3700	3700.0	4865.0	61636.6	447176	5405119
3700	3700.0	4870.0	61662.6	447175	5405123
3700	3700.0	4875.0	61687.7	447175	5405128
3700	3700.0	4880.0	61697.0	447174	5405133
3700	3700.0	4885.0	61664.0	447174	5405138
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3800	3800.0	4510.0	61699.6	447305	5404769
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4400	4400.0	4620.0	61641.6	447896	5404968
4400	4400.0	4625.0	61625.0	447896	5404973
4400	4400.0	4630.0	61641.4	447896	5404978
4400	4400.0	4635.0	61650.6	447895	5404983
4400	4400.0	4640.0	61635.2	447895	5404988
4400	4400.0	4645.0	61651.1	447895	5404993
4400	4400.0	4650.0	61641.4	447895	5404998
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4700	4700.0	4585.0	61678.4	448230	5404942
4700	4700.0	4590.0	61676.0	448229	5404947
4700	4700.0	4595.0	61674.0	448228	5404952
4700	4700.0	4600.0	61679.2	448228	5404957
4700	4700.0	4605.0	61676.0	448227	5404962
4700	4700.0	4610.0	61682.7	448227	5404967
4700	4700.0	4615.0	61688.2	448226	5404972
4700	4700.0	4620.0	61693.2	448225	5404977
4700	4700.0	4625.0	61677.1	448225	5404982
4700	4700.0	4630.0	61676.0	448224	5404987
4700	4700.0	4635.0	61672.4	448223	5404992
4700	4700.0	4640.0	61672.3	448223	5404997
4700	4700.0	4645.0	61672.3	448222	5405002
4700	4700.0	4650.0	61666.9	448222	5405007
4700	4700.0	4655.0	61674.8	448221	5405012
4700	4700.0	4660.0	61657.9	448220	5405017
4700	4700.0	4665.0	61657.4	448220	5405021
4700	4700.0	4670.0	61657.0	448219	5405026
4700	4700.0	4675.0	61655.2	448219	5405031
4700	4700.0	4680.0	61660.3	448218	5405036
4700	4700.0	4685.0	61675.0	448217	5405041
4700	4700.0	4690.0	61633.4	448217	5405046

4700	4700.0	4695.0	61624.6	448216	5405051
4700	4700.0	4700.0	61645.4	448216	5405056
4700	4700.0	4705.0	61629.5	448215	5405061
4700	4700.0	4710.0	61649.1	448214	5405066
4700	4700.0	4715.0	61613.9	448214	5405071
4700	4700.0	4720.0	61609.1	448213	5405076
4700	4700.0	4725.0	61681.9	448213	5405081
4700	4700.0	4730.0	61636.6	448212	5405086
4700	4700.0	4735.0	61626.6	448211	5405091
4700	4700.0	4740.0	61619.5	448211	5405096
4700	4700.0	4745.0	61637.2	448210	5405101
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4700	4700.0	4755.0	61618.6	448209	5405111
4700	4700.0	4760.0	61582.1	448208	5405116
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4700	4700.0	4825.0	61698.8	448200	5405180
4700	4700.0	4830.0	61622.0	448200	5405185
4700	4700.0	4835.0	61633.7	448199	5405190
4700	4700.0	4840.0	61615.6	448198	5405195
4700	4700.0	4845.0	61547.7	448198	5405200
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4700	4700.0	4855.0	61658.9	448197	5405210
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4700	4700.0	4875.0	61609.6	448194	5405230
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4700	4700.0	4955.0	61605.4	448184	5405309

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4700	4700.0	4975.0	61629.6	448182	5405329
4700	4700.0	4980.0	61624.2	448181	5405334
4700	4700.0	4985.0	61611.8	448181	5405339
4700	4700.0	4990.0	61619.4	448180	5405344
4700	4700.0	4995.0	61620.1	448180	5405349
4700	4700.0	5000.0	61612.2	448179	5405354
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4800	4800.0	4575.0	61732.1	448354	5404952
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4800	4800.0	4585.0	61733.9	448352	5404962
4800	4800.0	4590.0	61736.9	448351	5404967
4800	4800.0	4595.0	61736.5	448350	5404972
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4800	4800.0	4610.0	61738.6	448348	5404987
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4800	4800.0	4620.0	61754.2	448346	5404997
4800	4800.0	4625.0	61749.0	448345	5405002
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4800	4800.0	4655.0	61757.3	448340	5405031
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4800	4800.0	4675.0	61796.1	448336	5405051
4800	4800.0	4680.0	61772.9	448336	5405056
4800	4800.0	4685.0	61766.8	448335	5405061
4800	4800.0	4690.0	61760.8	448334	5405066
4800	4800.0	4695.0	61763.4	448333	5405071
4800	4800.0	4700.0	61764.4	448332	5405076
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4800	4800.0	4710.0	61721.3	448330	5405085
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5000	5000.0	4845.0	61732.6	448499	5405240
5000	5000.0	4850.0	61710.5	448498	5405245
5000	5000.0	4855.0	61715.4	448498	5405250
5000	5000.0	4860.0	61714.3	448497	5405255
5000	5000.0	4865.0	61667.7	448496	5405260
5000	5000.0	4870.0	61736.7	448496	5405265
5000	5000.0	4875.0	61721.6	448495	5405270
5000	5000.0	4880.0	61643.4	448495	5405275
5000	5000.0	4885.0	61724.1	448494	5405280
5000	5000.0	4890.0	61638.9	448493	5405285
5000	5000.0	4895.0	61656.6	448493	5405290
5000	5000.0	4900.0	61641.8	448492	5405295
5000	5000.0	4905.0	61697.0	448492	5405300
5000	5000.0	4910.0	61646.2	448491	5405305
5000	5000.0	4915.0	61678.0	448490	5405310
5000	5000.0	4920.0	61707.4	448490	5405315
5000	5000.0	4925.0	61716.9	448489	5405320
5000	5000.0	4930.0	61683.1	448489	5405325
5000	5000.0	4935.0	61663.8	448488	5405329
5000	5000.0	4940.0	61638.1	448487	5405334
5000	5000.0	4945.0	61634.7	448487	5405339
5000	5000.0	4950.0	61636.7	448486	5405344
5000	5000.0	4955.0	61620.8	448485	5405349
5000	5000.0	4960.0	61620.5	448485	5405354
5000	5000.0	4965.0	61638.9	448484	5405359
5000	5000.0	4970.0	61675.2	448484	5405364
5000	5000.0	4975.0	61705.0	448483	5405369
5000	5000.0	4980.0	61684.0	448482	5405374
5000	5000.0	4985.0	61737.7	448482	5405379
5000	5000.0	4990.0	61706.9	448481	5405384

5000	5000.0	4995.0	61656.4	448481	5405389
5000	5000.0	5000.0	61649.7	448480	5405394
5100	5100.0	4700.0	61726.8	448627	5405107
5100	5100.0	4705.0	61719.9	448626	5405111
5100	5100.0	4710.0	61702.3	448625	5405116
5100	5100.0	4715.0	61714.8	448624	5405121
5100	5100.0	4720.0	61780.9	448624	5405126
5100	5100.0	4725.0	61753.4	448623	5405131
5100	5100.0	4730.0	61753.2	448622	5405136
5100	5100.0	4735.0	61747.8	448621	5405141
5100	5100.0	4740.0	61735.0	448620	5405146
5100	5100.0	4745.0	61697.2	448619	5405151
5100	5100.0	4750.0	61706.9	448618	5405156
5100	5100.0	4755.0	61700.6	448618	5405161
5100	5100.0	4760.0	61709.9	448617	5405166
5100	5100.0	4765.0	61714.8	448616	5405171
5100	5100.0	4770.0	61728.8	448615	5405175
5100	5100.0	4775.0	61721.4	448614	5405180
5100	5100.0	4780.0	61684.2	448613	5405185
5100	5100.0	4785.0	61737.2	448612	5405190
5100	5100.0	4790.0	61686.5	448611	5405195
5100	5100.0	4795.0	61712.8	448611	5405200
5100	5100.0	4800.0	61711.1	448610	5405205
5100	5100.0	4805.0	61701.9	448609	5405210
5100	5100.0	4810.0	61697.8	448608	5405215
5100	5100.0	4815.0	61678.4	448607	5405220
5100	5100.0	4820.0	61693.7	448606	5405225
5100	5100.0	4825.0	61690.6	448605	5405230
5100	5100.0	4830.0	61687.6	448605	5405235
5100	5100.0	4835.0	61704.4	448604	5405240
5100	5100.0	4840.0	61670.7	448603	5405244
5100	5100.0	4845.0	61670.3	448602	5405249
5100	5100.0	4850.0	61677.8	448601	5405254
5100	5100.0	4855.0	61724.7	448600	5405259
5100	5100.0	4860.0	61663.4	448599	5405264
5100	5100.0	4865.0	61661.0	448598	5405269
5100	5100.0	4870.0	61647.9	448598	5405274
5100	5100.0	4875.0	61663.9	448597	5405279
5100	5100.0	4880.0	61599.8	448596	5405284
5100	5100.0	4885.0	61719.9	448595	5405289
5100	5100.0	4890.0	61673.6	448594	5405294
5100	5100.0	4895.0	61639.4	448593	5405299
5100	5100.0	4900.0	61689.8	448592	5405304
5100	5100.0	4905.0	61713.3	448591	5405308
5100	5100.0	4910.0	61631.6	448591	5405313
5100	5100.0	4915.0	61700.7	448590	5405318
5100	5100.0	4920.0	61660.0	448589	5405323
5100	5100.0	4925.0	61716.5	448588	5405328
5100	5100.0	4930.0	61713.0	448587	5405333
5100	5100.0	4935.0	61633.6	448586	5405338
5100	5100.0	4940.0	61621.5	448585	5405343
5100	5100.0	4945.0	61639.3	448585	5405348
5100	5100.0	4950.0	61617.3	448584	5405353

5100	5100.0	4955.0	61655.3	448583	5405358
5100	5100.0	4960.0	61660.5	448582	5405363
5100	5100.0	4965.0	61672.4	448581	5405368
5100	5100.0	4970.0	61653.6	448580	5405372
5100	5100.0	4975.0	61655.0	448579	5405377
5100	5100.0	4980.0	61618.6	448578	5405382
5100	5100.0	4985.0	61661.7	448578	5405387
5100	5100.0	4990.0	61633.9	448577	5405392
5100	5100.0	4995.0	61621.3	448576	5405397
5100	5100.0	5000.0	61634.4	448575	5405402

Appendix 3
Stream sediment data

Spl_id	Easting	Northing	Cu	Pb	Zn	Ag	W	Au #80 ppm	Au_CN ppt	Au pancon
43854	443275	5405660	27	23	134	-1	6	-0.01	1000	-0.01
43855	443636	5405236	8	9	4	-1	5.4	-0.01	-100	-0.01
43856	443199	5406136	29	43	130	-1	25.9	-0.01	-100	0.04
43857	443270	5406160	16	39	232	-1	3.4	-0.01	-100	-0.01
43858	443767	5407161	14	51	145	-1	10.9	-0.01	-100	-0.01
43859	444005	5407361	8	28	128	-1	3.4	-0.01	-100	-0.01
43860	445033	5405374	11	12	200	-1	4.5	-0.01	-100	-0.01
43861	445005	5405374	11	11	31	-1	1.6	-0.01	-100	-0.01
43862	443817	5405950	15	22	162	-1	18.7	-0.01	2000	0.17
43863	443760	5405960	7	8	74	-1	3.5	-0.01	-100	-0.01
43864	442480	5407000	13	16	64	-1	3.7	-0.01	1000	-0.01
43865	442252	5405970	32	18	26	-1	28	-0.01	2000	-0.01
43866	442215	5405960	17	7	19	-1	37.5	-0.01	1000	-0.01
43867	445279	5406450	6	30	170	-1	3.7	-0.01	1000	-0.01
43868	445375	5406328	5	22	81	-1	3.6	-0.01	1000	-0.01
43869	450626	5405822	17	10	33	-1	2.7	-0.01	1000	-0.01
43870	450652	5405827	9	4	17	-1	1.8	-0.01	-100	-0.01
43871	451036	5405568	28	18	51	-1	1.5	-0.01	1000	-0.01
43872	450994	5405568	9	3	12	-1	1.2	-0.01	-100	-0.01
43873	452654	5405650	8	13	114	-1	3.4	-0.01	-100	-0.01
43874	453287	5405324	5	4	14	-1	1.4	-0.01	-100	-0.01
43875	453229	5405312	4	-3	10	-1	0.8	-0.01	-100	-0.01
43876	452320	5405520	9	6	18	-1	0.7	-0.01	-100	-0.01
43877	452400	5405670	14	8	42	-1	1.1	-0.01	-100	-0.01
43878	453938	5405880	7	5	48	-1	1.3	-0.01	-100	-0.01
43879	453990	5405940	15	18	172	-1	2.3	-0.01	-100	-0.01

Appendix 4
Rockchip geochemical data
(historical and recent)

FiretowerRockchip Samples

East_AMG	North_AMG	Sample No.	Cu ppm	Pb ppm	Zn ppm	As ppm	Au ppm
446065	5405100	2000	41	559	191	95	0.7
446060	5405115	2001	42	185	235	235	0.14
445725	5405150	2002	153	9	106	-50	0.96
445720	5405150	2003	172	8	145	-50	0.65
445710	5405160	2004	58	-3	73	-50	-0.01
446070	5405120	2005	103	80	170	355	0.03
446085	5405107	2006	38	105	186	890	0.02
446095	5405115	2007	37	607	638	-50	-0.01
446120	5405120	2008	133	101	222	-50	-0.01
446120	5405100	2009	150	142	428	210	0.06
446112	5405082	2010	143	4580	1900	-50	-0.01
446100	5405075	2011	22	1030	18	-50	-0.01
446108	5405065	2012	68	127	59	-50	-0.01
446085	5405087	2013	51	684	122	-50	-0.01
446065	5405100	2014	210	3590	795	520	0.16
446160	5405072	2015	86	213	205	140	0.05
446170	5405067	2016	407	48	475	-50	0.02
446140	5405075	2017	170	1175	1035	130	0.23
446175	5405050	2018	74	320	712	-50	0.05
446180	5405043	2019	30	696	296	-50	0.06
446200	5405045	2020	64	1120	551	-50	0.27
446150	5405050	2021	38	42	217	-50	-0.01
446163	5405076	2022	121	984	857	460	-0.01
446243	5405023	2023	10	7	152	-50	-0.01
446245	5405005	2024	92	168	183	50	0.17
446220	5405015	2025	59	141	299	-50	0.05
446240	5404985	2026	40	87	461	-50	0.49
446280	5405015	2027	13	7	62	-50	-0.01
446310	5405025	2028	55	6	47	-50	-0.01
446325	5404973	2029	214	98	106	4470	11.2
446328	5404970	2030	20	16	38	110	0.07
446333	5404977	2031	21	23	45	-50	-0.01
446305	5404965	2032	18	15	23	-50	-0.01
446320	5405000	2033	28	5	53	-50	-0.01
446380	5405000	2034	51	74	194	-50	-0.01
446430	5405010	2035	44	513	71	-50	-0.01
446470	5405005	2036	42	107	408	75	-0.01
446045	5405125	2037	107	18	148	340	0.1
446037	5405127	2038	197	24	39	855	0.12
446050	5405097	2039	62	486	193	-50	0.22
446047	5405065	2040	31	286	18	-50	-0.01
446042	5405075	2041	39	60	51	-50	-0.01
446065	5405080	2042	25	411	62	-50	-0.01
445990	5405040	15707	37	94	82	-50	0.02
445992	5405031	15708	19	17	154	-50	0.02
445995	5405016	15709	90	55	178	325	2.21
445998	5405005	15710	27	198	150	-50	0.03
446255	5404997	15711	122	248	322	-50	0.46
446258	5404994	15712	46	23	54	-50	0.02
446325	5404995	15713	284	138	232	4992	30.1

446325	5404995	15714	151	29	32	2207	1.92
447187	5405085	15715	162	993	2001	-50	0.05
447192	5405045	15716	1001	801	3505	-50	0.01
446063	5405120	15717	100	97	160	533	0.03
446065	5405100	15718	24	29	142	-50	0.12
446065	5405100	15719	32	396	372	-50	0.01
445820	5405100	1083601	73	-3	150	55	3.25
445730	5405150	1083602	11	-3	164	-50	0.26
445720	5405150	1083603	245	-3	37	-50	-0.01
445660	5405100	1083604	37	-3	30	50	1.69
445660	5405120	1083605	48	57	657	-50	0.03
445660	5405130	1083606	41	7	84	-50	6.35
445660	5405150	1083607	396	-3	36	-50	0.07
445660	5405000	1083608	49	18	240	-50	0.01
446060	5405080	1083609	29	678	36	-50	-0.01
446060	5405008	1083610	165	59	313	-50	-0.01
446070	5404985	1083611	615	37	77	350	0.03
446060	5404935	1083612	40	17	24	-50	-0.01
445980	5404920	1083613	104	5	77	-50	-0.01
445970	5405000	1083614	119	18	59	-50	-0.01
446220	5404960	1083615	139	79	24	-50	-0.01
446210	5405110	1083616	107	-3	73	-50	-0.01
445600	5405000	1083617	57	332	135	-50	-0.01
445580	5405040	1083618	14	4	33	-50	0.6
445580	5405180	1083619	5	3	20	-50	-0.01
446300	5405090	1083620	20	3	52	-50	-0.01
446300	5405125	1083621	45	28	193	-50	-0.01
446300	5404970	1083622	17	9	70	-50	-0.01
446400	5405000	1083623	145	1350	1110	-50	-0.01
446420	5405000	1083624	19	38	31	-50	-0.01
446430	5405000	1083625	11	22	7	-50	-0.01
446432	5405000	1083626	21	16	6	-50	-0.01
446435	5405010	1083627	21	21	209	-50	-0.01
446460	5405030	1083628	134	222	132	440	0.05
446460	5405060	1083629	36	61	206	205	0.24
446500	5404950	1083630	14	11	13	70	-0.01
444970	5406100	1083631	21	-3	46	-50	-0.01
445008	5405860	1083632	29	-3	114	-50	-0.01
446000	5405550	1083633	6	-3	171	-50	-0.01
445050	5404700	1083634	391	14	593	-50	-0.01
444350	5406270	1083635	7	3	174	-50	-0.01
447440	5405220	1083636	46	125	226	-50	-0.01
447300	5405160	1083637	70	142	48	-50	-0.01
447625	5405120	1083638	63	77	81	-50	-0.01
447380	5405100	1083639	57	46	93	-50	-0.01
447490	5405080	1083640	83	541	220	-50	-0.01
447490	5405070	1083641	18	176	295	-50	-0.01
447260	5405200	1083642	95	196	89	85	-0.01
447260	5405125	1083643	68	206	1135	-50	-0.01
447260	5405120	1083644	49	98	44	-50	-0.01
447260	5405100	1083645	19	47	182	-50	-0.01
447070	5405200	1083646	112	9	4	-50	0.04
447090	5405115	1083647	70	43	89	-50	0.01

447090	5405100	1083648	133	453	327	-50	0.01
447100	5405080	1083649	283	1270	584	210	0.11
447105	5405050	1083650	27	132	94	-50	-0.01
447110	5405000	1083651	13	128	25	-50	-0.01
447120	5404990	1083652	16	134	433	-50	-0.01
447150	5404870	1083653	13	7	40	-50	-0.01
446750	5404820	1083654	33	5	90	-50	-0.01
446740	5404990	1083655	54	125	176	-50	-0.01
446740	5404870	1083656	19	7	135	-50	-0.01
443905	5406480	1083657	105	182	39	-50	-0.01
444190	5406320	1083658	9	49	54	-50	-0.01
444180	5406320	1083659	74	335	184	475	-0.01
443990	5406400	1083660	134	20	128	-50	-0.01
443500	5406690	1083661	110	957	69	-50	-0.01
443540	5406160	1083662	87	241	126	90	-0.01
443620	5406690	1083663	69	225	136	635	-0.01
443500	5406495	1083664	57	1945	817	-50	-0.01
443570	5406200	1083665	9	11	56	-50	-0.01
443680	5406400	1083666	11	171	14	-50	-0.01
443500	5406050	1083667	8	5	43	-50	-0.01
443300	5406500	1083668	21	596	174	-50	-0.01
445140	5405475	1083669	16	28	23	-50	-0.01
442760	5406430	1083670	99	444	243	-50	-0.01
442510	5406390	1083671	134	7	51	-50	-0.01
442540	5406250	1083672	76	13	79	-50	-0.01
442560	5406300	1083673	54	71	52	-50	-0.01
445080	5406150	1083674	348	33	134	-50	-0.01
442690	5406250	1083675	828	50	189	135	0.04
442750	5406240	1083676	245	21	61	50	-0.01
442820	5406320	1083677	90	45	764	-50	-0.01
442790	5406630	1083678	921	61	94	-50	0.1
442750	5406740	1083679	681	8	72	-50	0.01
442680	5406750	1083680	796	21	97	-50	-0.01
442480	5406900	1083681	207	29	393	-50	-0.01
447730	5405150	1083682	87	42	589	85	-0.01
447735	5405130	1083683	218	97	377	-50	-0.01
447745	5405080	1083684	227	75	236	-50	-0.01
447755	5405030	1083685	204	1025	396	60	0.01
447650	5405000	1083686	32	230	541	-50	-0.01
447640	5405070	1083687	81	12	92	-50	-0.01
447630	5405115	1083688	77	410	141	-50	-0.01
447630	5405140	1083689	77	176	161	-50	-0.01
447930	5405190	1083690	50	7	133	-50	-0.01
446435	5404900	1083691	14	-3	63	-50	-0.01
446430	5404885	1083692	8	3	40	-50	-0.01
446435	5404865	1083693	9	-3	57	-50	-0.01
446440	5404835	1083694	21	5	36	-50	-0.01
446440	5404825	1083695	15	-3	29	-50	-0.01
446535	5404885	1083696	12	-3	96	-50	-0.01
450040	5405630	1083697	224	2340	316	-50	-0.01
449950	5405180	1083698	76	1080	111	-50	-0.01
449770	5405650	1083699	66	779	78	-50	-0.01
449600	5406320	1083700	82	66	22	-50	-0.01

449900	5405800	1083701	9	-3	15	-50	-0.01
449600	5406900	1083702	23	13	40	-50	-0.01
449580	5406380	1083703	7	3	48	-50	-0.01
443200	5406230	1083704	51	47	80	-50	0.05
443200	5406120	1083705	593	30	635	-50	0.05
443200	5406010	1083706	29	6	149	-50	-0.01
443200	5405900	1083707	24	13	151	-50	-0.01
442380	5406480	1083708	1315	3	181	-50	0.13
442200	5406415	1083709	38	12	24	-50	-0.01
442200	5406475	1083710	35	7	29	-50	-0.01
442200	5406175	1083711	22	14	17	-50	-0.01
442200	5406065	1083712	38	33	31	-50	-0.01
442400	5406875	1083713	49	15	144	-50	-0.01
442400	5406750	1083714	28	12	31	-50	-0.01
442400	5406740	1083715	106	3	134	-50	-0.01
442400	5406675	1083716	26	11	153	-50	-0.01
442400	5406625	1083717	32	22	138	-50	-0.01
442400	5406550	1083718	33	19	88	-50	-0.01
442400	5406525	1083719	526	18	196	-50	0.01
442400	5406480	1083720	125	9	212	-50	0.01
442400	5406500	1083721	653	4	136	-50	-0.01
442400	5406410	1083722	93	8	98	-50	0.01
442400	5406375	1083723	98	16	157	-50	0.02
442400	5406350	1083724	38	24	81	-50	-0.01
442600	5406340	1083725	190	5	38	-50	-0.01
442600	5406310	1083726	249	17	44	65	0.02
442600	5406290	1083727	233	25	78	-50	0.01
442600	5406275	1083728	679	33	64	135	0.07
442600	5406250	1083729	313	83	96	70	0.02
442800	5406365	1083730	487	487	200	-50	-0.01
442800	5406350	1083731	128	2220	616	-50	0.01
442800	5406300	1083732	235	94	481	70	-0.01
442800	5406250	1083733	67	21	49	-50	-0.01
442800	5406235	1083734	311	9	193	-50	0.02
442800	5406565	1083735	38	14	85	-50	-0.01
442800	5406600	1083736	732	56	34	-50	0.01
442800	5406700	1083737	496	29	87	-50	0.01
442800	5406740	1083738	478	18	104	-50	0.01
442800	5406775	1083739	289	15	31	-50	-0.01
442800	5406790	1083740	33300	108	117	-50	0.02
442800	5406815	1083741	2650	150	219	-50	0.01
442600	5406750	1083742	515	200	285	-50	0.01
442600	5406725	1083743	443	1120	383	-50	0.01
442600	5406675	1083744	374	915	204	-50	0.01
442600	5406525	1083745	242	14	78	-50	-0.01
442600	5406500	1083746	147	16	134	-50	-0.01
443000	5406475	1083747	51	82	107	-50	0.01
443000	5406450	1083748	172	259	210	-50	0.01
443000	5406300	1083749	141	5	78	-50	0.02
443000	5406275	1083750	63	-3	131	-50	0.01
443000	5406625	1083751	444	169	63	135	0.02
443200	5406720	1083752	34	380	101	-50	0.01
443200	5406700	1083753	136	1195	339	-50	0.02

446530	5405800	225098	5	15	30	-0.005
446080	5405450	225099	5	105	105	-0.005
446815	5405005	225114	40	1600	100	0.1
446800	5405110	225115	45	105	355	-0.005
447020	5404925	225116	5	-5	40	-0.005
447015	5404965	225117	230	-5	80	-0.005
447005	5405015	225118	15	-5	30	-0.005
447105	5405005	225119	20	-5	45	-0.005
447180	5405110	225121	1700	1150	1900	-0.005
447190	5405060	225122	325	800	1150	-0.005
447195	5405035	225123	65	495	345	-0.005
447198	5405025	225124	1900	925	5650	-0.005
447200	5405006	225125	55	-5	70	-0.005
447300	5405001	225126	160	-5	195	-0.005
447292	5405050	225127	10	-5	85	-0.005
447400	5404940	225128	70	-5	45	-0.005
447390	5404990	225129	10	-5	15	-0.005
447385	5405010	225130	10	-5	25	-0.005
447380	5405045	225131	50	130	50	-0.005
447610	5404935	225132	45	-5	50	0.3
447609	5404985	225133	15	-5	25	-0.005
447590	5405030	225134	30	-5	55	-0.005
447575	5405124	225135	20	-5	125	-0.005
447570	5405162	225136	10	-5	35	-0.005
447585	5405175	225137	45	-5	40	-0.005
447795	5405056	225138	325	-5	25	-0.005
448010	5405005	225139	30	-5	45	-0.005
447997	5405087	225140	35	-5	40	-0.005
447995	5405094	225141	1150	-5	45	-0.005
447985	5405123	225142	100	-5	55	-0.005
447975	5405197	225143	20	-5	115	-0.005
448240	5405000	225144	65	-5	140	-0.005
448235	5405025	225145	10	250	75	-0.005
448225	5405090	225146	30	70	35	-0.005
448220	5405115	225147	10	160	110	-0.005
448325	5405050	225148	5	155	375	-0.005
448320	5405083	225149	55	1750	340	-0.005
448312	5405330	225150	10	-5	35	-0.005
448290	5405295	225153	5	-5	40	-0.005
448308	5405160	225154	5	-5	95	-0.005
448315	5405083	225155	10	650	185	-0.005
448335	5405000	225156	10	50	60	-0.005
448349	5404940	225157	45	40	55	-0.005
448688	5405280	225158	5	365	345	-0.005
448678	5405335	225159	5	-5	65	-0.005
448695	5405234	225160	60	2200	140	-0.005
448700	5405195	225161	25	250	70	-0.005
448716	5405120	225162	10	135	180	-0.005
446076	5406080	225163	-5	-5	170	-0.005
446433	5405830	225164	5	-5	500	-0.005
446675	5405825	225165	-5	-5	470	-0.005
447090	5405825	225166	-5	-5	340	-0.005
448710	5405740	225167	-5	-5	115	-0.005

445870	5406090	225168	-5	-5	45	-0.005
445850	5405770	225169	15	-5	155	-0.005
445170	5405450	225170	5	-5	100	-0.005
445195	5405360	225171	5	-5	50	-0.005
445230	5405065	225172	5	-5	20	-0.005
445490	5405028	225173	5	-5	60	-0.005
445488	5405035	225174	455	-5	305	-0.005
445695	5404970	225175	35	-5	155	-0.005
445695	5404985	225176	85	-5	105	-0.005
445695	5404985	225177	25	-5	155	0.4
445688	5405010	225178	55	-5	130	-0.005
445675	5405080	225179	85	-5	110	-0.005
445670	5405105	225180	165	-5	80	-0.005
445668	5405125	225181	5	-5	155	-0.005
445768	5405138	225182	25	-5	90	-0.005
445780	5405085	225184	65	-5	140	-0.005
445787	5405042	225185	35	-5	90	-0.005
445794	5405020	225186	15	-5	90	-0.005
445890	5405094	225187	1600	2300	3500	4.99
445910	5405020	225188	40	-5	30	-0.005
445916	5404995	225189	595	-5	330	-0.005
446090	5404970	225190	40	-5	40	-0.005
446080	5405015	225191	20	35	50	-0.005
446080	5405025	225192	35	275	65	-0.005
446070	5405068	225193	225	255	115	-0.005
446068	5405090	225194	85	515	380	-0.005
446058	5405140	225195	10	5	75	-0.005
448835	5404925	225196	30	-5	30	-0.005
446830	5404940	225197	15	-5	25	0.04
446025	5404935	225198	10	-5	25	-0.005
446010	5405012	225199	20	-5	15	-0.005
448614	5405053	225201	85	35	95	-0.005
448603	5405115	225202	20	10	60	-0.005
448600	5405145	225203	15	35	345	-0.005
448650	5405480	225204	45	35	180	-0.005
448650	5405480	225205	10	5	70	-0.005
448650	5405480	225206	40	25	200	-0.005
448890	5405325	225208	10	45	155	-0.005

East_AMG	North_AMG	Sample No.	Ti_X	Zr_X	V_X	P_X
445660	5405000	1083608	2540	247	380	60
446060	5405080	1083609	1550	102	290	53
446070	5404985	1083611	2810	295	420	64
446060	5404935	1083612	3180	399	260	77
445980	5404920	1083613	2740	253	385	65
445970	5405000	1083614	1570	308	100	9
446220	5404960	1083615	1200	193	94	12
446210	5405110	1083616	4760	137	520	275
444970	5406100	1083631	2480	251	65	945
445008	5405860	1083632	3720	282	138	1130
446000	5405550	1083633	1590	326	16	1080
445050	5404700	1083634	2690	19	296	960
444350	5406270	1083635	3300	534	40	1150
443990	5406400	1083660	4260	261	470	162
443500	5406690	1083661	2800	366	285	77
450040	5405630	1083697	5760	165		560
449770	5405650	1083699	3500	435		430
449580	5406380	1083703	4000	178		500

Appendix 5
West gog grid
C-Horizon soil samples.

West Gog C-Horizon soil sample analyses and point locations

East	North	Spl_ID	Au	As	Cu	Pb	Zn
443200	5406500	42843	-0.01	-1	33	34	37
443200	5406475	42844	-0.01	3	49	84	34
443200	5406450	42845	-0.01	-1	70	9	70
443200	5406425	42846	0.13	2	239	20	76
443200	5406400	42847	0.02	1	62	42	86
443200	5406375	42848	0.02	-1	72	25	93
443200	5406350	42849	0.01	-1	39	15	51
443200	5406325	42851	-0.01	-1	54	20	88
443200	5406300	42852	-0.01	3	76	63	114
443200	5406275	42853	-0.01	4	63	41	82
443200	5406250	42854	-0.01	4	97	47	96
443200	5406225	42855	-0.01	7	70	80	161
443200	5406200	42856	-0.01	3	34	64	264
443200	5406175	42857	-0.01	5	48	42	185
443200	5406150	42858	-0.01	8	101	73	389
443200	5406125	42859	-0.01	9	33	57	356
443200	5406100	42860	-0.01	24	26	51	319
443200	5406075	42861	-0.01	5	32	17	124
443200	5406050	42862	-0.01	4	28	32	234
443200	5406025	42863	-0.01	2	22	23	101
443200	5406000	42864	-0.01	3	23	24	165
443200	5405975	42865	-0.01	7	21	68	111
443200	5405950	42866	-0.01	-1	18	13	166
443200	5405925	42867	-0.01	-1	26	23	128
443200	5405900	42868	0.02	-1	52	15	126
443200	5405875	42869	-0.01	-1	27	35	90
443200	5405850	42870	-0.01	-1	21	12	34
443200	5405825	42871	-0.01	2	19	-3	12
443200	5405800	42872	-0.01	-1	20	3	11
443200	5406525	42873	-0.01	7	40	46	85
443200	5406550	42874	-0.01	6	58	58	89
443200	5406575	42875	-0.01	3	61	74	98
443200	5406600	42876	-0.01	4	46	78	79
443200	5406625	42877	-0.01	6	38	76	98
443200	5406650	42878	-0.01	11	39	109	271
443200	5406675	42879	0.04	50	110	354	199
443200	5406700	42880	0.02	26	84	631	169
443200	5406725	42881	-0.01	32	95	382	225
443200	5406750	42882	-0.01	16	176	353	168
443200	5406775	42883	-0.01	23	344	312	118
443200	5406800	42884	0.02	12	368	433	121
443200	5406825	42885	-0.01	2	189	58	85
443200	5406850	42886	0.03	4	351	240	102
443200	5406875	42887	0.01	5	177	225	130
443200	5406900	42888	0.01	8	170	104	135
443200	5406925	42889	0.01	13	192	56	126
443200	5406950	42890	-0.01	11	230	232	198
443200	5406975	42891	-0.01	4	144	102	156
443200	5407000	42892	-0.01	8	127	86	107
443000	5406500	42893	0.05	105	89	517	155

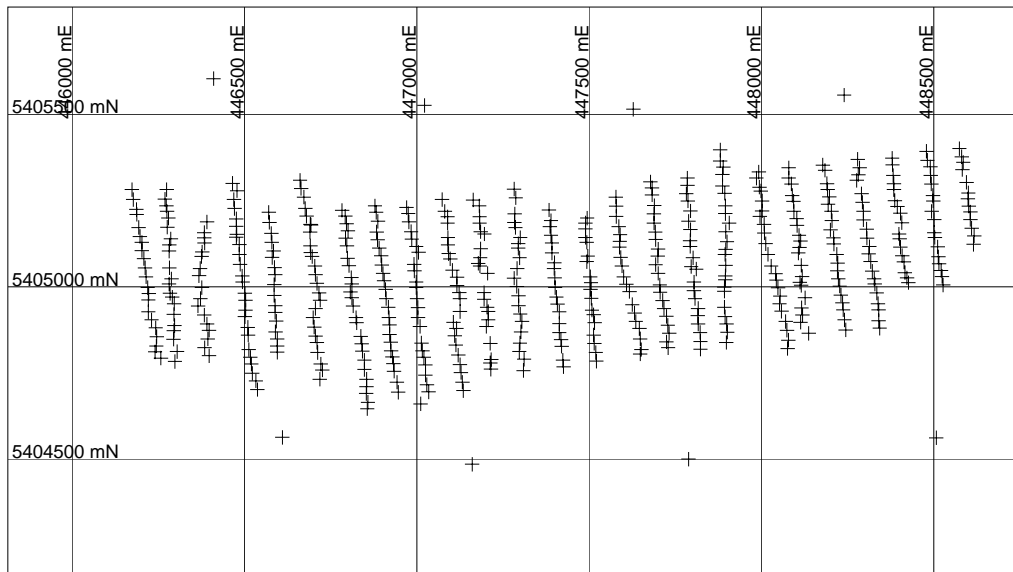
443000	5406475	42894	-0.01	17	69	93	62
443000	5406450	42895	0.01	60	157	1210	173
443000	5406425	42896	-0.01	85	227	353	199
443000	5406400	42897	-0.01	2	156	207	149
443000	5406375	42898	-0.01	6	98	105	63
443000	5406350	42899	-0.01	1	94	121	69
		42900	0.12	6	64	49	74
442800	5406125	43881	-0.01	-1	6	4	15
442800	5406100	43882	0.01	-1	15	-3	7
442600	5406425	43883	-0.01	1	72	27	40
442600	5406400	43884	0.03	9	259	10	47
442600	5406375	43885	-0.01	5	139	13	57
442600	5406350	43886	-0.01	6	211	10	50
442600	5406325	43887	0.02	5	200	17	37
442600	5406300	43888	-0.01	1	145	193	34
442600	5406275	43889	-0.01	3	76	135	28
442600	5406250	43890	-0.01	3	81	202	61
442600	5406225	43891	-0.01	1	85	26	24
442600	5406200	43892	-0.01	8	82	40	45
442600	5406175	43893	-0.01	1	16	9	9
442600	5406150	43894	-0.01	-1	19	4	8
442600	5406450	43895	0.1	2	144	69	32
442600	5406475	43896	0.03	7	253	33	37
442600	5406500	43897	-0.01	6	185	20	48
442600	5406525	43898	-0.01	8	231	22	51
442600	5406550	43899	-0.01	7	146	18	57
		43900	0.39	34	3880	11500	2640
442600	5406575	43901	-0.01	6	97	21	69
442600	5406600	43902	-0.01	4	59	8	33
442600	5406625	43903	-0.01	4	42	9	21
442600	5406650	43904	0.03	7	308	112	58
442600	5406675	43905	0.02	8	250	264	80
442600	5406700	43906	0.02	7	153	787	80
442600	5406725	43907	0.02	4	213	113	40
442600	5406750	43908	0.01	4	168	60	74
442600	5406775	43909	0.01	3	109	80	43
442600	5406800	43910	0.01	3	70	98	45
442600	5406825	43911	-0.01	6	322	371	135
442600	5406850	43912	0.03	5	174	20	34
442600	5406875	43913	0.01	5	119	43	32
442600	5406900	43914	0.02	11	104	520	87
442600	5406925	43915	0.02	8	117	147	92
442600	5406950	43916	0.03	9	151	69	97
442600	5406975	43917	0.02	7	97	45	62
442400	5407000	43919	0.01	2	45	11	32
442400	5406975	43920	0.01	1	22	20	49
442400	5406950	43921	0.02	1	42	14	44
442400	5406925	43922	0.02	2	64	9	62
442400	5406900	43923	0.01	5	102	18	77
442400	5406875	43924	0.01	1	199	15	127
442400	5406850	43925	-0.01	3	123	8	37
442400	5406825	43926	-0.01	-1	17	8	27
442400	5406800	43927	-0.01	-1	16	11	34

442400	5406775	43928	-0.01	-1	15	13	36
442400	5406750	43929	-0.01	-1	66	20	51
442400	5406725	43930	-0.01	-1	18	24	49
442400	5406700	43931	-0.01	-1	46	28	73
442400	5406675	43932	-0.01	-1	19	37	64
442400	5406650	43933	-0.01	-1	25	28	56
442400	5406625	43934	-0.01	-1	26	30	58
442400	5406600	43935	0.01	1	109	51	75
442400	5406575	43936	-0.01	1	146	39	60
442400	5406550	43937	0.01	1	103	84	59
442400	5406525	43938	0.01	1	143	21	55
442400	5406500	43939	0.01	1	348	11	54
442400	5406475	43940	-0.01	1	91	18	48
442400	5406450	43941	0.14	-1	66	21	33
442400	5406425	43942	-0.01	2	145	39	37
442400	5406400	43943	0.01	1	86	22	36
442400	5406375	43944	-0.01	5	120	16	69
442400	5406350	43945	-0.01	2	51	18	27
442400	5406325	43946	-0.01	1	19	10	15
442400	5406300	43947	-0.01	-1	27	10	16
442400	5406275	43948	-0.01	2	76	15	19
442400	5406250	43949	-0.01	1	23	13	11
		43950	0.4	32	3700	11400	2640
442400	5406225	43951	-0.01	4	14	8	8
442400	5406200	43952	-0.01	2	12	7	7
442400	5406175	43953	-0.01	6	12	12	12
442400	5406150	43954	-0.01	5	17	16	16
442400	5406125	43955	-0.01	8	9	17	16
442400	5406100	43956	-0.01	7	16	7	19
442400	5406075	43957	-0.01	2	11	7	9
442400	5406050	43958	-0.01	1	18	-3	5
442400	5406025	43959	-0.01	2	9	-3	4
442400	5406000	43960	-0.01	1	24	3	6
442200	5406425	43961	-0.01	5	23	15	16
442200	5406400	43962	-0.01	5	26	18	20
442200	5406375	43963	-0.01	3	33	13	19
442200	5406350	43964	-0.01	9	58	20	37
442200	5406325	43965	-0.01	4	18	8	23
442200	5406300	43966	-0.01	4	19	15	24
442200	5406275	43967	-0.01	2	6	13	15
442200	5406250	43968	-0.01	3	8	10	27
442200	5406225	43969	-0.01	2	4	13	18
442200	5406200	43970	-0.01	3	15	16	14
442200	5406175	43971	-0.01	4	17	25	18
442200	5406150	43972	0.01	4	8	15	12
442200	5406125	43973	0.01	3	7	14	11
442200	5406100	43974	0.02	4	26	14	16
442200	5406075	43975	0.01	8	98	12	27
442200	5406050	43976	0.01	8	94	36	30
442200	5406025	43977	-0.01	5	22	17	18
442200	5406000	43978	-0.01	4	29	18	20
442200	5406675	43979	0.02	2	14	4	8
442200	5406700	43980	-0.01	2	35	27	13

442200	5406725	43981	-0.01	2	10	5	6
442200	5406750	43982	-0.01	2	20	10	10
442200	5406775	43983	-0.01	2	9	3	3
442200	5406800	43984	-0.01	2	20	3	8
442200	5406825	43985	-0.01	2	9	-3	6
442200	5406850	43986	-0.01	3	9	11	57
442200	5406875	43987	-0.01	3	7	14	82
442200	5406900	43988	-0.01	2	10	83	111
442200	5406925	43989	-0.01	2	10	157	150
442200	5406950	43990	-0.01	3	9	68	113
443000	5406325	38930	-0.01	7	152	211	86
443000	5406300	38931	-0.01	3	68	46	44
443000	5406275	38932	-0.01	6	182	14	87
443000	5406250	38933	-0.01	6	77	12	79
443000	5406225	38934	-0.01	11	69	18	51
443000	5406200	38935	-0.01	8	122	117	78
443000	5406175	38936	-0.01	3	29	26	16
443000	5406150	38937	-0.01	-1	19	7	8
443000	5406125	38938	-0.01	-1	32	5	11
443000	5406100	38939	-0.01	-1	18	6	12
443000	5406075	38940	-0.01	-1	22	14	12
443000	5406050	38941	-0.01	-1	23	17	18
443000	5406025	38942	-0.01	-1	18	7	9
443000	5406000	38943	-0.01	-1	27	10	10
443000	5406525	38944	-0.01	13	35	105	41
443000	5406550	38945	-0.01	26	60	454	99
443000	5406575	38946	0.01	28	66	177	77
443000	5406600	38947	-0.01	22	68	125	74
443000	5406625	38948	-0.01	24	58	120	56
443000	5406650	38949	-0.01	49	106	350	109
		38950	0.37	38	3830	11700	2570
443000	5406675	38951	-0.01	50	108	220	85
443000	5406700	38952	0.01	55	392	229	128
443000	5406725	38953	0.01	55	379	229	322
443000	5406750	38954	0.02	50	410	316	658
443000	5406775	38955	0.01	39	281	288	180
443000	5406800	38956	0.02	305	304	503	208
443000	5406825	38957	0.03	45	417	544	157
443000	5406850	38958	0.03	48	915	491	167
443000	5406875	38959	0.03	38	674	380	407
443000	5406900	38960	-0.01	10	301	165	403
443000	5406925	38961	-0.01	5	216	118	283
443000	5406950	38962	-0.01	10	500	220	308
443000	5406975	38963	-0.01	17	797	315	372
443000	5407000	38964	-0.01	11	288	170	131
442800	5406450	38965	-0.01	2	149	54	34
442800	5406475	38966	-0.01	8	220	44	35
442800	5406500	38967	-0.01	8	420	94	43
442800	5406525	38968	-0.01	5	144	27	28
442800	5406550	38969	-0.01	10	278	42	33
442800	5406575	38970	-0.01	5	79	29	40
442800	5406600	38971	-0.01	10	127	41	39
442800	5406625	38972	0.01	10	179	47	32

442800	5406650	38973	-0.01	11	471	45	46
442800	5406675	38974	-0.01	3	218	38	22
442800	5406700	38975	-0.01	6	363	26	31
442800	5406725	38976	-0.01	11	610	26	35
442800	5406750	38977	-0.01	10	486	38	35
442800	5406775	38978	0.01	10	1045	49	50
442800	5406800	38979	-0.01	8	446	37	44
442800	5406825	38980	0.01	11	1090	95	67
442800	5406850	38981	0.02	11	680	303	195
442800	5406875	38982	0.02	11	775	501	197
442800	5406900	38983	0.02	20	806	375	295
442800	5406925	38984	-0.01	9	174	154	164
442800	5406950	38985	0.02	11	413	249	131
442800	5406425	38988	-0.01	12	278	160	23
442800	5406400	38989	-0.01	7	115	50	29
442800	5406375	38990	-0.01	12	425	724	127
442800	5406350	38991	0.01	3	142	288	109
442800	5406325	38992	0.01	11	253	442	83
442800	5406300	38993	-0.01	8	263	265	76
442800	5406275	38994	-0.01	4	58	9	17
442800	5406250	38995	-0.01	6	66	25	31
442800	5406225	38996	-0.01	4	46	17	17
442800	5406200	38997	-0.01	5	68	32	44
442800	5406175	38998	-0.01	16	87	53	56
442800	5406150	38999	-0.01	11	41	149	24

Appendix 6
Gradient array IP data



Gradient Array IP transmitter and receiver location points.

LINE	East	North	MX	Rhoneu	E_AMG	N_AMG
2600	2600.0	4987.5	2.84	1114.47	446091	5405158
2600	2600.0	4962.5	7.21	2279.6	446094	5405133
2600	2600.0	4937.5	10.4	2114.06	446098	5405108
2600	2600.0	4912.5	15.59	1380.83	446101	5405083
2600	2600.0	4887.5	17.58	2379.55	446105	5405059
2600	2600.0	4862.5	17.63	2405.7	446108	5405034
2600	2600.0	4837.5	16.49	1707.24	446112	5405009
2600	2600.0	4812.5	22.31	924.93	446115	5404984
2600	2600.0	4787.5	19.43	945.03	446118	5404960
2600	2600.0	4762.5	4.93	977.05	446122	5404935
2700	2700.0	5087.5	8.11	2340.97	446176	5405271
2700	2700.0	5062.5	4.55	4272.2	446179	5405246
2700	2700.0	5037.5	4.49	3907.77	446183	5405221
2700	2700.0	5012.5	3.45	2528.99	446186	5405196
2700	2700.0	4987.5	5.99	3017.79	446190	5405172
2700	2700.0	4962.5	7.4	2387.11	446193	5405147
2700	2700.0	4937.5	7.67	1391.52	446197	5405122
2700	2700.0	4912.5	11.47	1788.56	446200	5405097
2700	2700.0	4887.5	10.81	2866.63	446204	5405073
2700	2700.0	4862.5	9.63	2158.7	446207	5405048
2700	2700.0	4837.5	13.6	1719.72	446211	5405023
2700	2700.0	4812.5	17.52	1484.91	446214	5404998
2700	2700.0	4787.5	20.36	1793.35	446217	5404974
2700	2700.0	4762.5	10.52	1876.65	446221	5404949
2700	2700.0	4737.5	5.16	2312.51	446224	5404924
2700	2700.0	4712.5	3.52	3362.69	446228	5404899
2700	2700.0	4687.5	6.38	4172.78	446231	5404875
2700	2700.0	4662.5	9.89	1790.15	446235	5404850
2700	2700.0	4637.5	9.93	1090.59	446238	5404825
2700	2700.0	4612.5	10.12	1064.55	446242	5404800
2800	2800.0	5087.5	6.08	2545.23	446276	5405271
2800	2800.0	5062.5	3.39	3195.05	446277	5405246
2800	2800.0	5037.5	4.07	3338.27	446278	5405221
2800	2800.0	5012.5	3.8	3688.21	446280	5405196
2800	2800.0	4987.5	6.32	2891.64	446281	5405171
2800	2800.0	4962.5	7.1	2518.34	446282	5405146
2800	2800.0	4937.5	7.77	2516.23	446284	5405121
2800	2800.0	4912.5	8.71	1482.46	446285	5405096
2800	2800.0	4887.5	8.94	1908.49	446286	5405071
2800	2800.0	4862.5	9.72	2251.82	446287	5405046
2800	2800.0	4837.5	11.74	1934.57	446289	5405021
2800	2800.0	4812.5	16.48	835.71	446290	5404996
2800	2800.0	4787.5	16.11	1394.89	446291	5404971
2800	2800.0	4762.5	10.04	2071.27	446293	5404946
2800	2800.0	4737.5	7.15	2682.56	446294	5404921
2800	2800.0	4712.5	1.72	1790.78	446295	5404896
2800	2800.0	4687.5	5.75	3315.41	446297	5404871
2800	2800.0	4662.5	7.86	1786.77	446298	5404846
2800	2800.0	4637.5	7.15	825.65	446299	5404821
2800	2800.0	4612.5	6.43	388.84	446301	5404796
2900	2900.0	4987.5	5.96	1423.1	446392	5405177
2900	2900.0	4962.5	6.67	2664.29	446393	5405152

2900	2900.0	4937.5	5.36	3049.29	446394	5405127
2900	2900.0	4912.5	6.06	3157.45	446395	5405102
2900	2900.0	4887.5	6.86	1384.46	446396	5405077
2900	2900.0	4862.5	7.64	1474.16	446397	5405052
2900	2900.0	4837.5	11.63	1266.34	446398	5405027
2900	2900.0	4812.5	15.08	1281.34	446399	5405002
2900	2900.0	4787.5	23.7	934.69	446399	5404977
2900	2900.0	4762.5	12.28	1692.15	446400	5404952
2900	2900.0	4737.5	11.21	2275.51	446401	5404927
2900	2900.0	4712.5	8.82	2169.56	446402	5404902
2900	2900.0	4687.5	3.21	2908.38	446403	5404877
2900	2900.0	4662.5	5.94	2335.06	446404	5404852
2900	2900.0	4637.5	8.27	1183.27	446405	5404827
2900	2900.0	4612.5	9.92	624.87	446406	5404802
3000	3000.0	5087.5	3.76	1950.42	446468	5405289
3000	3000.0	5062.5	4.82	2435.82	446471	5405264
3000	3000.0	5037.5	4.11	5088.1	446475	5405239
3000	3000.0	5012.5	4.84	5280.03	446478	5405214
3000	3000.0	4987.5	5.48	2545.03	446482	5405190
3000	3000.0	4962.5	4.47	2892.9	446485	5405165
3000	3000.0	4937.5	5.28	2656.04	446489	5405140
3000	3000.0	4912.5	5.96	3475.08	446492	5405115
3000	3000.0	4887.5	6.9	2054.56	446496	5405091
3000	3000.0	4862.5	11.02	1744.69	446499	5405066
3000	3000.0	4837.5	13.64	1154.04	446503	5405041
3000	3000.0	4812.5	19.32	1495.09	446506	5405016
3000	3000.0	4787.5	18.35	1582.26	446509	5404992
3000	3000.0	4762.5	21.11	1162.27	446513	5404967
3000	3000.0	4737.5	10.01	2362.16	446516	5404942
3000	3000.0	4712.5	7.32	2094	446520	5404917
3000	3000.0	4687.5	5.3	2610.82	446523	5404893
3000	3000.0	4662.5	4.91	3015.25	446527	5404868
3000	3000.0	4637.5	7.19	1613.1	446530	5404843
3000	3000.0	4612.5	8.07	883.36	446534	5404818
3000	3000.0	4587.5	6.68	358.85	446537	5404793
3000	3000.0	4562.5	7.07	372.18	446541	5404769
3000	3000.0	4537.5	14.12	721.43	446544	5404744
3000	3000.0	4512.5	12.2	3537.58	446548	5404719
3100	3100.0	4987.5	4.66	4762.99	446572	5405205
3100	3100.0	4962.5	6.11	3212.62	446574	5405180
3100	3100.0	4937.5	3.32	4461.02	446575	5405155
3100	3100.0	4912.5	8.29	2638.86	446577	5405130
3100	3100.0	4887.5	8.31	2148.52	446579	5405105
3100	3100.0	4862.5	8.93	2504.18	446581	5405080
3100	3100.0	4837.5	14.09	1766.69	446582	5405055
3100	3100.0	4812.5	19.7	1370.93	446584	5405030
3100	3100.0	4787.5	20.03	1786.82	446586	5405005
3100	3100.0	4762.5	14.29	2411.57	446588	5404980
3100	3100.0	4737.5	6.23	2874.12	446589	5404955
3100	3100.0	4712.5	8.73	2868.14	446591	5404930
3100	3100.0	4687.5	5.36	1969.62	446593	5404905
3100	3100.0	4662.5	6.3	2048.16	446595	5404880
3100	3100.0	4637.5	6.68	2684.36	446596	5404855

3100	3100.0	4612.5	6.16	1129.26	446598	5404830
3200	3200.0	5087.5	4.1	1631.8	446663	5405298
3200	3200.0	5062.5	6.8	2925.15	446666	5405273
3200	3200.0	5037.5	5.04	3614.42	446669	5405248
3200	3200.0	5012.5	4.57	2777.96	446671	5405223
3200	3200.0	4987.5	3.81	6410.3	446674	5405198
3200	3200.0	4962.5	5.5	3253.75	446676	5405173
3200	3200.0	4937.5	4.18	2380.53	446679	5405148
3200	3200.0	4912.5	8.1	3291.47	446682	5405124
3200	3200.0	4887.5	6.55	5173.61	446684	5405099
3200	3200.0	4862.5	9.06	3120.16	446687	5405074
3200	3200.0	4837.5	13.22	1711.74	446689	5405049
3200	3200.0	4812.5	16.79	1507.04	446692	5405024
3200	3200.0	4787.5	17.23	1654.48	446695	5404999
3200	3200.0	4762.5	20.85	1806.69	446697	5404974
3200	3200.0	4737.5	15.03	2596.96	446700	5404949
3200	3200.0	4712.5	9.07	1875.95	446703	5404925
3200	3200.0	4687.5	6.7	2343.18	446705	5404900
3200	3200.0	4662.5	6.26	3137.73	446708	5404875
3200	3200.0	4637.5	7.41	2520.82	446710	5404850
3200	3200.0	4612.5	8.49	3393.75	446713	5404825
3200	3200.0	4587.5	5.59	2580.63	446716	5404800
3200	3200.0	4562.5	6.04	1017.47	446718	5404775
3200	3200.0	4537.5	8.16	877.24	446721	5404751
3200	3200.0	4512.5	12.83	1430	446723	5404726
3300	3300.0	4987.5	4.19	4466.38	446786	5405211
3300	3300.0	4962.5	6.18	2733.1	446789	5405186
3300	3300.0	4937.5	2.96	4049.79	446793	5405161
3300	3300.0	4912.5	7.03	3762.53	446796	5405136
3300	3300.0	4887.5	7.12	4077.31	446800	5405112
3300	3300.0	4862.5	9.26	2419.59	446803	5405087
3300	3300.0	4837.5	12.9	2229.64	446807	5405062
3300	3300.0	4812.5	13.04	2723.44	446810	5405037
3300	3300.0	4787.5	15.42	1940.49	446814	5405013
3300	3300.0	4762.5	19.05	1784.58	446817	5404988
3300	3300.0	4737.5	15.43	2077.98	446821	5404963
3300	3300.0	4712.5	12.94	1979.96	446824	5404938
3300	3300.0	4687.5	11.26	2521.56	446827	5404914
3300	3300.0	4662.5	9.78	3052.86	446831	5404889
3300	3300.0	4637.5	9.59	2778.07	446834	5404864
3300	3300.0	4612.5	5.72	1820.6	446838	5404839
3300	3300.0	4587.5	5.98	1355.28	446841	5404815
3300	3300.0	4562.5	6.74	1678.55	446845	5404790
3300	3300.0	4537.5	5.72	2474.57	446848	5404765
3300	3300.0	4512.5	3.43	1529.25	446852	5404740
3400	3400.0	4987.5	5.64	4120.38	446881	5405224
3400	3400.0	4962.5	6.93	4909.26	446884	5405199
3400	3400.0	4937.5	6.88	3539.64	446887	5405174
3400	3400.0	4912.5	7.77	2478.23	446890	5405149
3400	3400.0	4887.5	7.5	1334.86	446893	5405124
3400	3400.0	4862.5	10.29	2028.16	446896	5405100
3400	3400.0	4837.5	10.9	1355.57	446899	5405075
3400	3400.0	4812.5	15.08	1704.35	446902	5405050

3400	3400.0	4787.5	15.14	1444.49	446905	5405025
3400	3400.0	4762.5	15.97	1031.6	446908	5405000
3400	3400.0	4737.5	12.82	1186.69	446911	5404975
3400	3400.0	4712.5	17.46	1617.37	446914	5404951
3400	3400.0	4687.5	15.05	1632.03	446917	5404926
3400	3400.0	4662.5	17.25	2086.56	446920	5404901
3400	3400.0	4637.5	11.52	2053.2	446923	5404876
3400	3400.0	4612.5	13.39	1559.38	446926	5404851
3400	3400.0	4587.5	12.08	1297.71	446929	5404827
3400	3400.0	4562.5	11.03	1237.76	446932	5404802
3400	3400.0	4537.5	4.75	725.2	446935	5404777
3400	3400.0	4512.5	9.07	1049.51	446938	5404752
3500	3500.0	4987.5	7.97	2613.91	446973	5405219
3500	3500.0	4962.5	7.15	3063.9	446978	5405194
3500	3500.0	4937.5	7.42	3383.61	446982	5405169
3500	3500.0	4912.5	6.9	3508.21	446986	5405145
3500	3500.0	4887.5	8.29	3439.41	446991	5405120
3500	3500.0	4862.5	11.59	2107.78	446995	5405096
3500	3500.0	4837.5	10.23	1700.72	446999	5405071
3500	3500.0	4812.5	13.36	1849.59	447004	5405046
3500	3500.0	4787.5	10.19	1331.08	447008	5405022
3500	3500.0	4762.5	10.02	1065.55	447012	5404997
3500	3500.0	4737.5	12.31	1082.57	447017	5404972
3500	3500.0	4712.5	18.15	1646.3	447021	5404948
3500	3500.0	4687.5	18.48	1514.29	447025	5404923
3500	3500.0	4662.5	17.12	1347.9	447030	5404899
3500	3500.0	4637.5	14.15	1685.32	447034	5404874
3500	3500.0	4612.5	13.96	1559.6	447038	5404849
3500	3500.0	4587.5	13.84	1517	447043	5404825
3500	3500.0	4562.5	14.08	1746.32	447047	5404800
3500	3500.0	4537.5	11.06	1828.01	447051	5404776
3500	3500.0	4512.5	9.16	1919.58	447056	5404751
3500	3500.0	4487.5	9.09	1484.36	447060	5404726
3500	3500.0	4462.5	9.16	1473.43	447064	5404702
3600	3600.0	4987.5	7.53	2018.51	447076	5405242
3600	3600.0	4962.5	7.52	2500.49	447079	5405217
3600	3600.0	4937.5	6.65	3087.26	447082	5405192
3600	3600.0	4912.5	6.23	3459.29	447085	5405167
3600	3600.0	4887.5	8.22	3193.78	447088	5405142
3600	3600.0	4862.5	11.71	1917.8	447091	5405118
3600	3600.0	4837.5	9.27	3338.92	447094	5405093
3600	3600.0	4812.5	17.12	2746.86	447097	5405068
3600	3600.0	4787.5	13.65	2237.08	447100	5405043
3600	3600.0	4762.5	9.99	1874.32	447103	5405018
3600	3600.0	4737.5	11.04	1945.36	447106	5404993
3600	3600.0	4712.5	24.2	1036.8	447109	5404969
3600	3600.0	4687.5	23.26	1029.24	447112	5404944
3600	3600.0	4662.5	16.46	1659.54	447115	5404919
3600	3600.0	4637.5	15.51	1800.34	447118	5404894
3600	3600.0	4612.5	11.78	2274.01	447121	5404869
3600	3600.0	4587.5	12.65	1457.84	447124	5404845
3600	3600.0	4562.5	10.14	1547.49	447127	5404820
3600	3600.0	4537.5	9.01	1693.44	447130	5404795

3600	3600.0	4512.5	14.62	2132.28	447133	5404770
3700	3700.0	4987.5	5.46	3154.91	447165	5405241
3700	3700.0	4962.5	5.38	2572.89	447167	5405216
3700	3700.0	4937.5	6.05	2408.98	447169	5405191
3700	3700.0	4912.5	7.2	2143.54	447172	5405166
3700	3700.0	4887.5	9.52	2322.08	447174	5405141
3700	3700.0	4862.5	10.61	2316.58	447176	5405116
3700	3700.0	4837.5	12.36	3456.69	447178	5405091
3700	3700.0	4812.5	9.34	3425.19	447180	5405066
3700	3700.0	4787.5	15.13	3533.67	447183	5405041
3700	3700.0	4762.5	19.93	2495.09	447185	5405016
3700	3700.0	4737.5	20.43	1805.85	447187	5404991
3700	3700.0	4712.5	18.76	1250.85	447189	5404967
3700	3700.0	4687.5	16.77	1864.3	447191	5404942
3700	3700.0	4662.5	15.47	1361.12	447193	5404917
3700	3700.0	4637.5	14.69	1605.56	447196	5404892
3700	3700.0	4612.5	9.56	2129.47	447198	5404867
3700	3700.0	4587.5	12.49	1100.46	447200	5404842
3700	3700.0	4562.5	10.7	1427.99	447202	5404817
3700	3700.0	4537.5	10.11	1682.77	447204	5404792
3700	3700.0	4512.5	10.84	1923.52	447206	5404767
3800	3800.0	4987.5	6.48	1612.2	447288	5405247
3800	3800.0	4962.5	7.26	2104.97	447289	5405222
3800	3800.0	4937.5	6.52	2368.09	447290	5405197
3800	3800.0	4912.5	6.38	2525.46	447291	5405172
3800	3800.0	4887.5	8.14	1910.81	447292	5405147
3800	3800.0	4862.5	12.58	2438.03	447293	5405122
3800	3800.0	4837.5	15.74	3010.12	447294	5405097
3800	3800.0	4812.5	11.07	2847.62	447295	5405072
3800	3800.0	4787.5	12.92	3508.7	447295	5405047
3800	3800.0	4762.5	20.3	2557.58	447296	5405022
3800	3800.0	4737.5	18.38	2403.74	447297	5404997
3800	3800.0	4712.5	17.43	830.14	447298	5404972
3800	3800.0	4687.5	14.35	1829.08	447299	5404947
3800	3800.0	4662.5	14.12	2017.07	447300	5404922
3800	3800.0	4637.5	12.47	2004.66	447301	5404897
3800	3800.0	4612.5	10.37	691.37	447302	5404872
3800	3800.0	4587.5	12.32	1486.3	447302	5404847
3800	3800.0	4562.5	14.5	1870.49	447303	5404822
3800	3800.0	4537.5	14.27	2146.52	447304	5404797
3800	3800.0	4512.5	12.2	1589.02	447305	5404772
3900	3900.0	4937.5	6.49	2060.53	447385	5405212
3900	3900.0	4912.5	7.5	2157.19	447387	5405187
3900	3900.0	4887.5	10	1652.66	447389	5405162
3900	3900.0	4862.5	15.06	2321.3	447392	5405137
3900	3900.0	4837.5	15.65	2045.79	447394	5405112
3900	3900.0	4812.5	12.15	2259.51	447396	5405087
3900	3900.0	4787.5	18.89	2012.89	447398	5405062
3900	3900.0	4762.5	19.71	1972.06	447400	5405037
3900	3900.0	4737.5	19.07	1670.68	447403	5405012
3900	3900.0	4712.5	13.23	1058.46	447405	5404987
3900	3900.0	4687.5	11.66	1412.01	447407	5404962
3900	3900.0	4662.5	13.08	1824.48	447409	5404938

3900	3900.0	4637.5	11.83	1402.54	447411	5404913
3900	3900.0	4612.5	13.21	1679.9	447413	5404888
3900	3900.0	4587.5	14.59	1778.38	447416	5404863
3900	3900.0	4562.5	15.7	2488.36	447418	5404838
3900	3900.0	4537.5	15.24	1660.65	447420	5404813
3900	3900.0	4512.5	14.14	2035.55	447422	5404788
4000	4000.0	4912.5	6.04	2196.18	447496	5405191
4000	4000.0	4887.5	7.69	1550.56	447497	5405166
4000	4000.0	4862.5	13.52	1724.08	447499	5405141
4000	4000.0	4837.5	18.18	2202.93	447501	5405116
4000	4000.0	4812.5	13.71	2151.65	447503	5405091
4000	4000.0	4787.5	16.29	1511.18	447504	5405066
4000	4000.0	4762.5	22.56	1455.62	447506	5405041
4000	4000.0	4737.5	20.24	1713.44	447508	5405016
4000	4000.0	4712.5	16.74	1380.62	447510	5404991
4000	4000.0	4687.5	13.88	1314.73	447511	5404966
4000	4000.0	4662.5	10.46	1643.73	447513	5404941
4000	4000.0	4637.5	10.68	2272.76	447515	5404916
4000	4000.0	4612.5	11.33	1947.34	447517	5404891
4000	4000.0	4587.5	15.7	2685.9	447518	5404866
4000	4000.0	4562.5	14.85	2458.23	447520	5404841
4000	4000.0	4537.5	16.43	1697.18	447522	5404816
4000	4000.0	4512.5	14.43	1561.37	447524	5404791
4100	4100.0	4937.5	7.44	1664.65	447580	5405249
4100	4100.0	4912.5	4.02	1692.02	447583	5405224
4100	4100.0	4887.5	13.98	1138.82	447586	5405199
4100	4100.0	4862.5	12.27	2324.94	447589	5405174
4100	4100.0	4837.5	11.92	1971.71	447592	5405149
4100	4100.0	4812.5	9.54	1305.8	447595	5405125
4100	4100.0	4787.5	10.13	1965.95	447598	5405100
4100	4100.0	4762.5	25.58	1230.06	447601	5405075
4100	4100.0	4737.5	29.9	1088.68	447604	5405050
4100	4100.0	4712.5	25.52	1054.56	447607	5405025
4100	4100.0	4687.5	20.24	1358.98	447610	5405000
4100	4100.0	4662.5	8.76	2212.01	447613	5404976
4100	4100.0	4637.5	9.49	1844.89	447616	5404951
4100	4100.0	4612.5	11.87	1524.99	447619	5404926
4100	4100.0	4587.5	12.52	2530.64	447622	5404901
4100	4100.0	4562.5	12.73	3100.18	447625	5404876
4100	4100.0	4537.5	13.71	2205.43	447628	5404852
4100	4100.0	4512.5	13.97	1977.66	447631	5404827
4200	4200.0	4987.5	5.37	1570.26	447680	5405293
4200	4200.0	4962.5	4.52	4218.5	447682	5405268
4200	4200.0	4937.5	4.17	1312.66	447684	5405243
4200	4200.0	4912.5	6.26	1463.16	447687	5405218
4200	4200.0	4887.5	8.07	1534.89	447689	5405193
4200	4200.0	4862.5	9.81	1430.41	447691	5405168
4200	4200.0	4837.5	11.78	1885.94	447693	5405143
4200	4200.0	4812.5	9.15	1907	447695	5405118
4200	4200.0	4787.5	12.45	1725.01	447698	5405093
4200	4200.0	4762.5	18.44	2156.22	447700	5405068
4200	4200.0	4737.5	27.63	1263.92	447702	5405043
4200	4200.0	4712.5	31.33	487.88	447704	5405019

4200	4200.0	4687.5	19.61	752.69	447706	5404994
4200	4200.0	4662.5	14.44	2631.06	447708	5404969
4200	4200.0	4637.5	12.11	2360.65	447711	5404944
4200	4200.0	4612.5	12.19	2533.23	447713	5404919
4200	4200.0	4587.5	13.04	3012.56	447715	5404894
4200	4200.0	4562.5	13.59	2238.25	447717	5404869
4200	4200.0	4537.5	13.23	2193.36	447719	5404844
4200	4200.0	4512.5	12.74	1810	447721	5404819
4300	4300.0	4987.5	5.32	2160.07	447787	5405304
4300	4300.0	4962.5	3.75	2249.49	447789	5405279
4300	4300.0	4937.5	5.93	2708.97	447790	5405254
4300	4300.0	4912.5	4.64	1600.52	447792	5405229
4300	4300.0	4887.5	8.38	1609	447794	5405204
4300	4300.0	4862.5	8.36	1847.51	447796	5405179
4300	4300.0	4837.5	10.23	2477.28	447797	5405154
4300	4300.0	4812.5	12.11	2647.17	447799	5405129
4300	4300.0	4787.5	12.5	1408.17	447801	5405104
4300	4300.0	4762.5	16.34	1593.72	447803	5405079
4300	4300.0	4737.5	20.88	1601.84	447804	5405054
4300	4300.0	4712.5	18.62	1025.68	447806	5405029
4300	4300.0	4687.5	15.52	2245.64	447808	5405004
4300	4300.0	4662.5	14.6	2245.86	447810	5404979
4300	4300.0	4637.5	15.28	3938.95	447811	5404954
4300	4300.0	4612.5	15	2078.35	447813	5404929
4300	4300.0	4587.5	14.33	2386.59	447815	5404905
4300	4300.0	4562.5	12.41	2145.92	447817	5404880
4300	4300.0	4537.5	11.31	921.07	447818	5404855
4300	4300.0	4512.5	13.19	3085.66	447820	5404830
4400	4400.0	5037.5	6.29	2538.31	447881	5405386
4400	4400.0	5012.5	5.83	2060.11	447882	5405361
4400	4400.0	4987.5	5.37	3234.56	447883	5405336
4400	4400.0	4962.5	5.11	3362.49	447884	5405311
4400	4400.0	4937.5	4.6	3794.45	447885	5405286
4400	4400.0	4912.5	3.69	3183.32	447886	5405261
4400	4400.0	4887.5	5.24	3282.68	447887	5405236
4400	4400.0	4862.5	8.39	1755.33	447888	5405211
4400	4400.0	4837.5	15.53	2625.97	447888	5405186
4400	4400.0	4812.5	13.14	3115.96	447889	5405161
4400	4400.0	4787.5	10.44	2391.42	447890	5405136
4400	4400.0	4762.5	13.02	2585.66	447891	5405111
4400	4400.0	4737.5	14.48	3029.74	447892	5405086
4400	4400.0	4712.5	15.71	2421.97	447893	5405061
4400	4400.0	4687.5	18.34	1467.09	447894	5405036
4400	4400.0	4662.5	16.1	2157.96	447895	5405011
4400	4400.0	4637.5	13	1828.48	447895	5404986
4400	4400.0	4612.5	14.32	2664.95	447896	5404961
4400	4400.0	4587.5	17.84	2422.5	447897	5404936
4400	4400.0	4562.5	16.26	2923.52	447898	5404911
4400	4400.0	4537.5	13.88	1411.84	447899	5404886
4400	4400.0	4512.5	10.11	1344.63	447900	5404861
4500	4500.0	4987.5	4.41	2823.77	447988	5405304
4500	4500	4987.5	5.17	5457.41	447988	5405304
4500	4500.0	4962.5	4.22	4726.6	447991	5405279

4500	4500	4962.5	5.13	3445.39	447991	5405279
4500	4500.0	4937.5	2.86	3757.85	447995	5405254
4500	4500	4937.5	7.13	3606.74	447995	5405254
4500	4500.0	4912.5	3.59	6858.83	447998	5405229
4500	4500	4912.5	8.74	2441.18	447998	5405229
4500	4500.0	4887.5	13.94	2071.71	448002	5405205
4500	4500	4887.5	16.02	1494.32	448002	5405205
4500	4500.0	4862.5	13.44	2959.49	448005	5405180
4500	4500	4862.5	16.19	2126.63	448005	5405180
4500	4500.0	4837.5	10.04	3036.69	448009	5405155
4500	4500	4837.5	12.64	2401.12	448009	5405155
4500	4500.0	4812.5	16.47	3004.96	448012	5405130
4500	4500	4812.5	18.74	2003.69	448012	5405130
4500	4500.0	4787.5	17.38	1606.47	448016	5405106
4500	4500	4787.5	16.57	1382.63	448016	5405106
4500	4500.0	4762.5	17.1	1876.01	448019	5405081
4500	4500	4762.5	17.79	1512.16	448019	5405081
4500	4500.0	4737.5	16.31	2467.88	448023	5405056
4500	4500	4737.5	17.07	2008.25	448023	5405056
4500	4500.0	4712.5	16.48	2045.66	448026	5405031
4500	4500	4712.5	16.12	1522.38	448026	5405031
4500	4500.0	4687.5	17.59	2552.32	448029	5405007
4500	4500	4687.5	17.31	1905.26	448029	5405007
4500	4500.0	4662.5	14.31	2441.22	448033	5404982
4500	4500	4662.5	14.38	1956.33	448033	5404982
4500	4500.0	4637.5	13.74	2008.69	448036	5404957
4500	4500	4637.5	14.65	1598.23	448036	5404957
4500	4500.0	4612.5	11.42	2034.52	448040	5404932
4500	4500	4612.5	11.91	1674.96	448040	5404932
4500	4500.0	4587.5	13.77	3190.2	448043	5404908
4500	4500	4587.5	13.59	2533.17	448043	5404908
4500	4500.0	4562.5	17.6	2070.67	448047	5404883
4500	4500	4562.5	16.18	1752.29	448047	5404883
4500	4500.0	4537.5	14.4	588.34	448050	5404858
4500	4500	4537.5	14.67	609.62	448050	5404858
4500	4500.0	4512.5	9.18	506.59	448054	5404833
4500	4500	4512.5	14.89	572.65	448054	5404833
4600	4600	4987.5	6.87	4410.61	448081	5405334
4600	4600	4962.5	6.17	4221.1	448082	5405309
4600	4600	4937.5	5.24	2915.96	448083	5405284
4600	4600	4912.5	7.52	3113.12	448085	5405259
4600	4600	4887.5	10.92	847.97	448086	5405234
4600	4600	4862.5	11.26	2674.47	448087	5405209
4600	4600	4837.5	15.69	2628.48	448089	5405184
4600	4600	4812.5	17.32	2825.46	448090	5405159
4600	4600	4787.5	18.49	1677.11	448091	5405134
4600	4600	4762.5	20.65	1773.72	448092	5405109
4600	4600	4737.5	18.26	1717.95	448094	5405084
4600	4600	4712.5	15.78	1610.39	448095	5405059
4600	4600	4687.5	19.09	1303.36	448096	5405034
4600	4600	4662.5	17.12	2219.34	448098	5405009
4600	4600	4637.5	11.32	2248.85	448099	5404984
4600	4600	4612.5	9.66	1680.32	448100	5404959

4600	4600	4587.5	11.27	1282.16	448102	5404934
4600	4600	4562.5	12.07	1502.74	448103	5404909
4600	4600	4537.5	17.9	1536.36	448104	5404884
4600	4600	4512.5	19.84	1340.48	448106	5404859
4700	4700	4987.5	9.34	3046.25	448181	5405342
4700	4700	4962.5	9.29	3477.33	448184	5405317
4700	4700	4937.5	6.64	3592.57	448187	5405292
4700	4700	4912.5	7.32	2850.84	448190	5405267
4700	4700	4887.5	10.6	3835.87	448193	5405242
4700	4700	4862.5	11.34	4071.14	448196	5405218
4700	4700	4837.5	9.68	3052.93	448199	5405193
4700	4700	4812.5	10.55	3100.9	448202	5405168
4700	4700	4787.5	17.01	2233.67	448205	5405143
4700	4700	4762.5	18.04	1898.35	448208	5405118
4700	4700	4737.5	20.29	1639.56	448211	5405093
4700	4700	4712.5	16.7	1093.04	448214	5405069
4700	4700	4687.5	16.45	1298.44	448217	5405044
4700	4700	4662.5	13.66	1591.05	448220	5405019
4700	4700	4637.5	10.57	1698.05	448223	5404994
4700	4700	4612.5	12.97	2249.53	448226	5404969
4700	4700	4587.5	14.32	1344.87	448229	5404945
4700	4700	4562.5	17.01	1277.44	448232	5404920
4700	4700	4537.5	18.41	1576.25	448235	5404895
4700	4700	4512.5	16.57	1459.81	448238	5404870
4800	4800.0	4987.5	12.38	2157.24	448282	5405359
4800	4800.0	4962.5	10.31	2662.96	448287	5405334
4800	4800.0	4937.5	6.83	1840.57	448291	5405309
4800	4800.0	4912.5	6.85	3930.16	448295	5405285
4800	4800.0	4887.5	10.25	3732.26	448300	5405260
4800	4800.0	4862.5	11.28	3600.56	448304	5405236
4800	4800.0	4837.5	13.75	3480.6	448308	5405211
4800	4800.0	4812.5	12	1824.4	448313	5405186
4800	4800.0	4787.5	14.1	2794.69	448317	5405162
4800	4800.0	4762.5	13.63	2315.36	448321	5405137
4800	4800.0	4737.5	13.27	2219.28	448326	5405112
4800	4800.0	4712.5	11.09	884.67	448330	5405088
4800	4800.0	4687.5	12.11	1936.97	448334	5405063
4800	4800.0	4662.5	11.59	1226.63	448339	5405039
4800	4800.0	4637.5	11.65	1287.5	448343	5405014
4800	4800.0	4612.5	15.74	606.84	448347	5404989
4800	4800.0	4587.5	14.18	3337.6	448352	5404965
4800	4800.0	4562.5	14.17	5237.32	448356	5404940
4800	4800.0	4537.5	13.33	4207.3	448360	5404916
4800	4800.0	4512.5	10.24	1717.97	448365	5404891
4900	4900.0	4987.5	13.1	2956.86	448382	5405362
4900	4900.0	4962.5	9.61	2071.86	448386	5405337
4900	4900.0	4937.5	8.93	2977.02	448390	5405312
4900	4900.0	4912.5	8.13	3876.45	448394	5405288
4900	4900.0	4887.5	9.1	4554.73	448398	5405263
4900	4900.0	4862.5	9.75	3501.36	448402	5405238
4900	4900.0	4837.5	10.17	3340.32	448405	5405214
4900	4900.0	4812.5	12.51	3409.87	448409	5405189
4900	4900.0	4787.5	15.07	1664.53	448413	5405164

4900	4900.0	4762.5	17.32	1463.79	448417	5405139
4900	4900.0	4737.5	13.53	1525.94	448421	5405115
4900	4900.0	4712.5	8.27	1671.07	448425	5405090
4900	4900.0	4687.5	5.11	1271.63	448429	5405065
5000	5000.0	4987.5	11.21	2625.24	448482	5405382
5000	5000.0	4962.5	9.84	3891.29	448485	5405357
5000	5000.0	4937.5	10.79	2815.08	448488	5405332
5000	5000.0	4912.5	8.87	2908.51	448491	5405307
5000	5000.0	4887.5	10.72	3565.48	448494	5405282
5000	5000.0	4862.5	10.16	3621.18	448497	5405258
5000	5000.0	4837.5	8.21	2338.73	448500	5405233
5000	5000.0	4812.5	8.69	2262.25	448503	5405208
5000	5000.0	4787.5	12.14	2867.34	448506	5405183
5000	5000.0	4762.5	11.92	3120.21	448509	5405158
5000	5000.0	4737.5	14.49	2355.52	448512	5405133
5000	5000.0	4712.5	12.2	1375.28	448515	5405109
5000	5000.0	4687.5	8.3	1080.52	448518	5405084
5000	5000.0	4662.5	7.47	1046.71	448521	5405059
5000	5000.0	4637.5	8.32	865.21	448524	5405034
5000	5000.0	4612.5	11.29	2345.77	448527	5405009
5100	5100.0	4987.5	11.19	2667.51	448482	5405382
5100	5100.0	4962.5	9.86	4215.41	448485	5405357
5100	5100.0	4937.5	10.96	3039.6	448488	5405332
5100	5100.0	4912.5	12.12	5199.81	448491	5405307
5100	5100.0	4887.5	10.61	2009.15	448494	5405282
5100	5100.0	4862.5	8.83	2399.04	448497	5405258
5100	5100.0	4837.5	8.71	2749.74	448500	5405233
5100	5100.0	4812.5	10.64	2358.51	448503	5405208
5100	5100.0	4787.5	10.96	2641.9	448506	5405183
5100	5100.0	4762.5	9.82	2589.24	448509	5405158
5100	5100.0	4737.5	12.63	3137.4	448512	5405133
5100	5100.0	4712.5	14	3728.28	448515	5405109