

EL 4457 Eva Valley

Final Report

CR90/442 A

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SUMMARY

Exploration Licence 4457 is 290 km south-east of Darwin, 68 km north-east of Katherine. The Licence was granted on 22 March 1984 and since then Billiton, Ken Day Pty Ltd and Denehurst Limited have actively explored the property.

Billiton conducted exploration from 1984 to 1987 within the original tenement and the areas remaining after reduction. The range of activities included literature reviews, field reconnaissance, rock chip sampling, airborne and ground magnetic surveys and interpretation, bulk leach stream sediment sampling, gridding and bulk leach soil sampling.

Ken Day Pty Ltd conducted exploration in a joint venture with Billiton during 1987 and 1988. The programme entailed a further literature review, gridding, mapping and sampling, costeaning which included mapping and sampling, small scale metallurgical testing, and contracted a low altitude multi-spectral remote sensing survey. Exploration was centred on Copperflower, Ghost Gum Flats, Twin Ridges and Ludan Prospects.

In 1988 Denehurst Limited purchased Ken Day Pty Ltd's interest and assumed that role in the joint venture. Denehurst Limited initiated a shallow bedrock drilling programme at Copperflower, Ghost Gum Flats and at Twin Ridges after initial reconnaissance. A mapping and sampling programme was conducted at Ludans as part of a more extensive mapping and evaluation project for the Licence.

In 1989 blocks containing Twin Ridges and Ludans were relinquished and in 1990 Mineral Claim applications were made over the Copperflower prospect. A programme of reverse circulation drilling was carried out at Copperflower and Ghost Gums. Poor results at Ghost Gums curtailed further drilling. At Copperflower a second phase of drilling was completed.

A preliminary resource estimate for Copperflower is 116,000 tonnes at approximately 2 g/t Au and 1% Cu, to a depth of 50 metres.

Six Mineral Claims were surveyed and applied for by the joint venturers, to maintain tenure over the resource and possible extensions of mineralisation.

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1. INTRODUCTION

This report describes exploration activity on those portions remaining of EL 4457, Eva Valley at the end of Year Six, 21 March 1990.

1.1 Tenure

EL 4457 was granted on 22 March 1984 to Shell Minerals (now Billiton Australia) and at that time comprised 24 blocks. Billiton subsequently entered into a Joint Venture with Ken Day Pty Ltd, the rights and obligations of which were assumed by Denehurst Limited in 1988. Progressive reductions were carried out at each year commencing in 1986 and at the date of relinquishment the Licence comprised four (4) blocks. This report summarises exploration on these four blocks. Previous relinquishment reports (MacKillop, 1989) cover exploration activity on the remaining blocks. Denehurst has pegged 6 Mineral Claim Applications over part of one block covering the Copperflower deposit. This report includes exploration on this block however a request has been made for this report to be kept on Closed File during the tenure of these Claims. An edited version of this report covering all exploration outside the Mineral Claim Application area (Lohan, 1990b) has been prepared for Open File release.

1.2 Location and Access

Exploration Licence 4457 is centered approximately 290

km south-east of Darwin, and 68 km north-east of Katherine (Fig 1). The licence area is accessed by road via the (old) Eva Valley Homestead. Roads past this point are generally unmaintained and access is restricted during the wet season.

The exploration licence at relinquishment date comprised 4 blocks located between $132^{\circ}48'$ and $132^{\circ}50'$ east longitude, and $14^{\circ}12'$ and $14^{\circ}15'$ south latitude (Fig 2).

The licence area is situated on Eva Valley Station (Pastoral Lease 705) which is operated by the Barunga-Wugularr Aboriginal community.

1.3 Climate and Topography

Relief in the area is low to moderate with drainage flowing northwards via Hindrance and Emu Creeks into Grace Creek, thence into the Katherine River. The climate is monsoonal with most rainfall falling between November to April. Vegetation is mostly medium-high (to 10m) open eucalypt woodland with sparse grasses. Stands of pandanus palms and paperbark grow near perennial water. The area is well covered by annual grasses during the monsoonal season.

2. REGIONAL GEOLOGY

2.1 Setting

Exploration licence 4457 lies in the most southern part of the Pine Creek Geosyncline as part of the Grace Creek Inlier (Fig 3). The Pine Creek Geosyncline

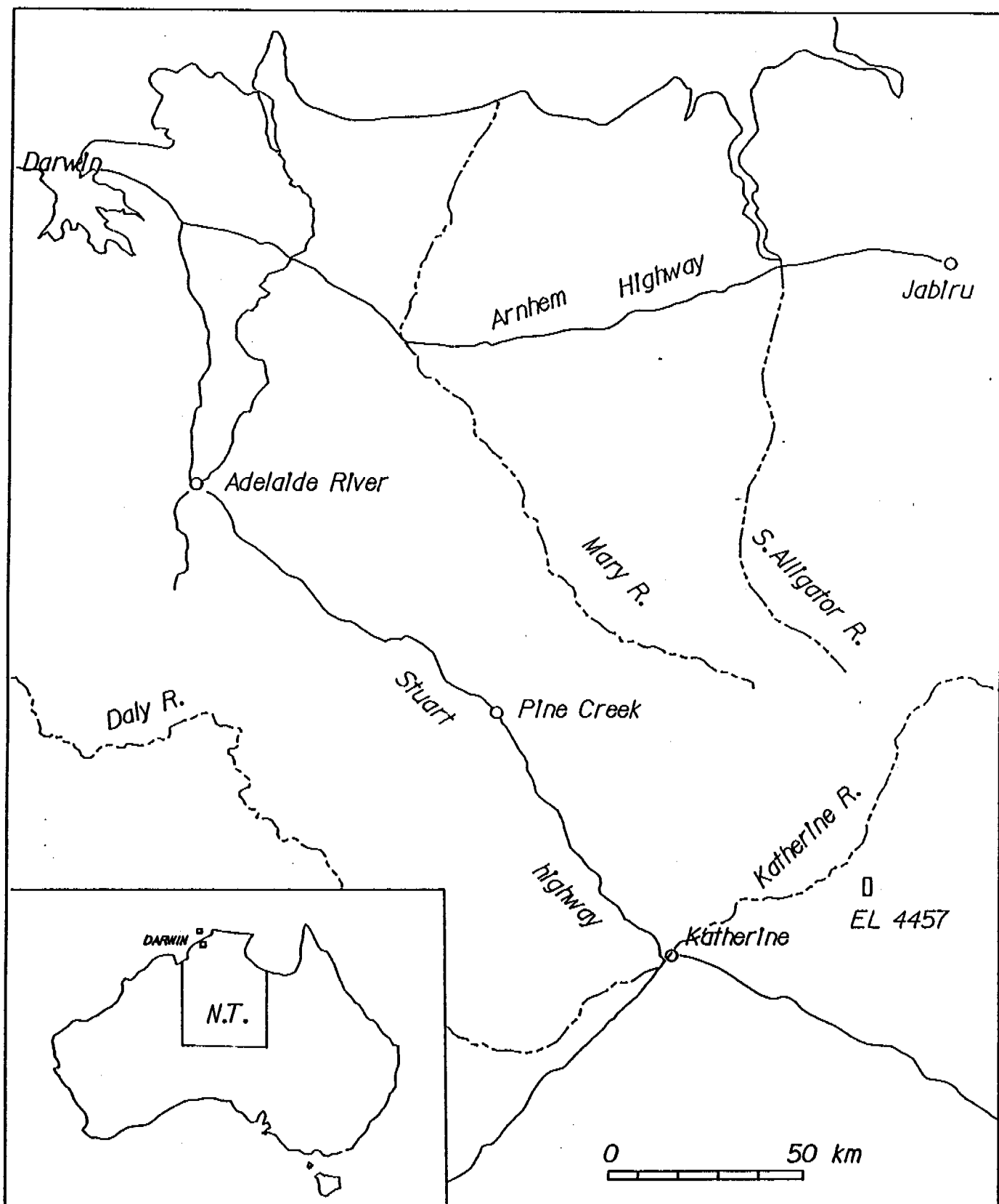
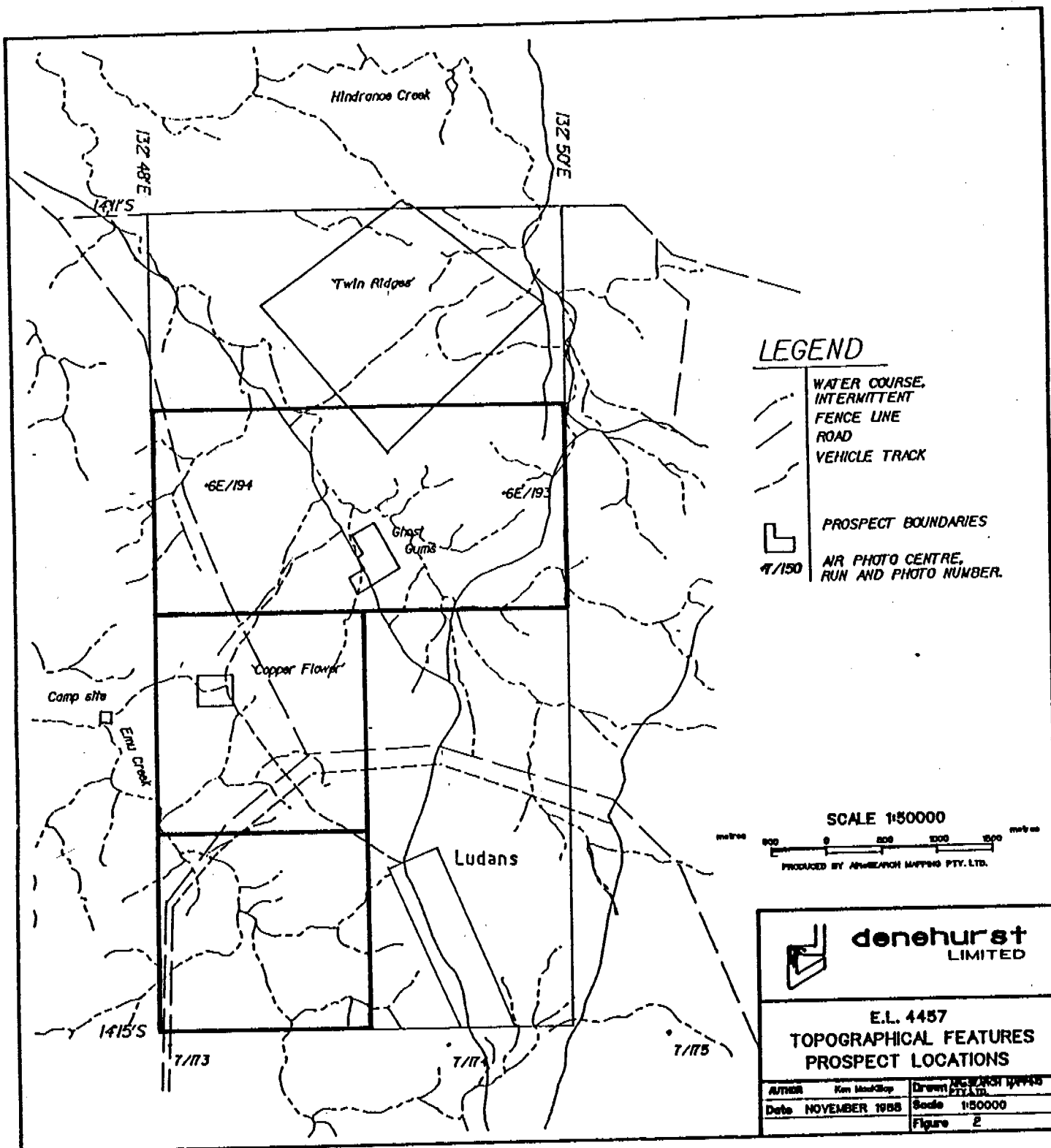
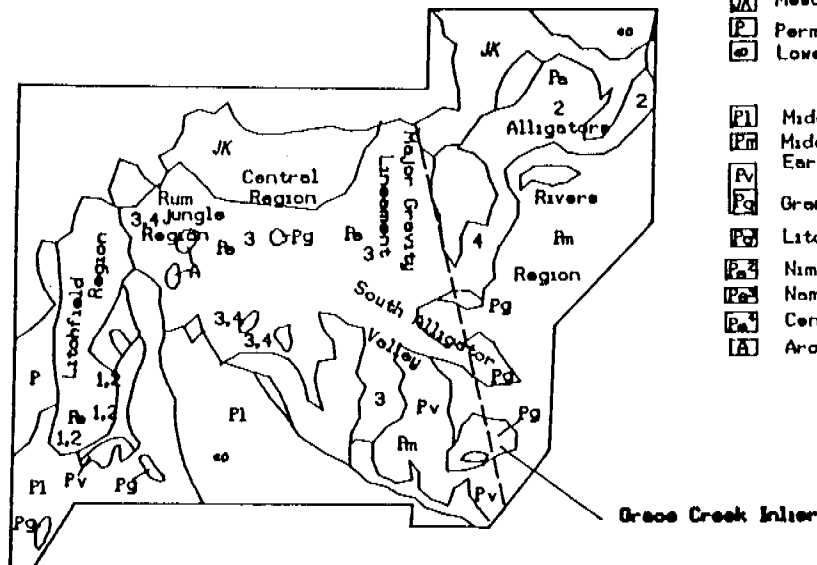


Figure 1

LOCATION MAP
EL 4457



PINE CREEK GEOSYNCLINE MAJOR DIVISION

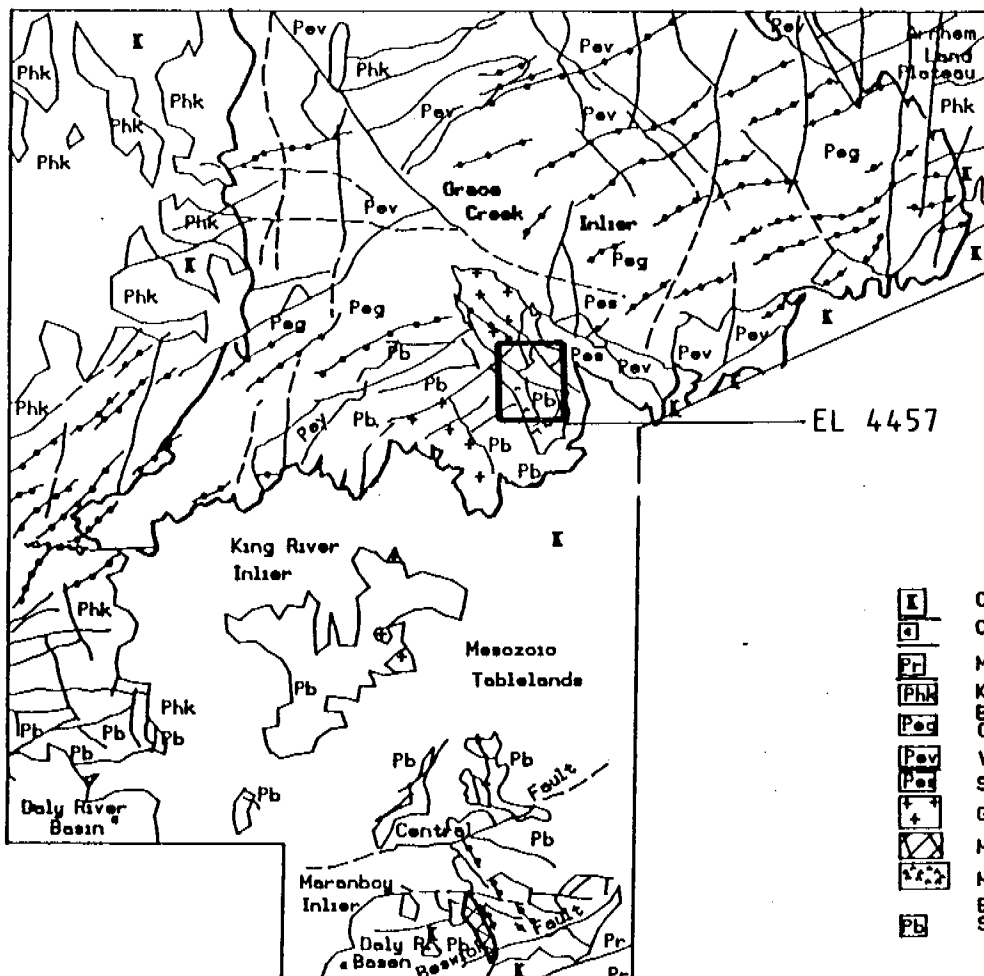


- [JK] Mesozoic - Bathurst Terrane
- [P] Permian - Bonaparte Gulf Basin
- [eo] Lower Palaeozoic - Daly River Basin
Arakura Basin
- [Pl] Middle Proterozoic - Victoria River Basin
- [Pm] Middle Proterozoic - McArthur Basin
Early Proterozoic
- [Pv] Granite, Volcanics, sediments
- [Pg] Lithfield Domain
- [Pa] Nimbawah Domain
- [Pe] Namambu Domain
- [Pc] Central Domain
- [A] Archean

Fig.3a

(Needham, et al, 1984)

STRUCTURAL ELEMENTS



- [K] Cretaceous
- [eo] Cambrian
- [Pr] Mount Rigg Group
- [Phk] Kombolgie Formation
- [Peg] Edith River Group
Granites
- [Pev] Volcanics, Minor, sediments
- [Pg] Sediments
- [+] Granite, gneiss
- [X] Meronboy Porphyry
- [x x] Maud Dolerite
- [Pb] EL Sherana Group
Sediments

Fig.3b

(Needham and Stuart-Smith, 1984)

contains Early Proterozoic metavolcano-sedimentary rocks resting on a gneissic and granitic basement. This sequence is intruded by transitional igneous rocks including pre-tectonic dolerite sills and syn- to post-tectonic granitoid plutons and dolerite dykes. Largely undeformed platform cover of Middle to Late Proterozoic Cambro-Ordovician and Mesozoic strata unconformably overlie the geosyncline rocks.

2.2 Stratigraphy

The stratigraphy of the Pine Creek Geosyncline follows the revised correlation of Needham, et al, (1984) (Table 1). In the Grace Creek Inlier the geosynclinal rocks are not exposed and the transitional rocks are represented by the Tollis Formation of the El Sherana Group. This unit is intruded by the post-orogenic Eva Valley Granite and Maud Dolerite. Platform cover of the Edith River Group, Hindrance Creek Sandstone and younger undivided Mullaman Group units unconformably overlie the above.

The Tollis Formation lithologies consist of greywacke, siltstone, mudstone, shale, basic tuff, basalt, dolerite, rhyolite, acid tuff, and banded iron formation with equivalent exhalites. The Eva Valley granite is generally a biotite leucogranite with passive contact margins to the metasediments. The Maud Dolerite is a dolerite intruded into the volcano-sedimentary sequence as sills. The Hindrance Creek

Table 1

Stratigraphic Column, Eva Valley

Quaternary	Qa	Alluvium deposits; sand, silt gravel, dark grey black clay loam
Cainozoic	Czs	Residual sand and soils
	Czl	Pisolitic laterite and ferruginous rubble, pebble surface
	Czv	Basalt, basaltic conglomerate
Mesozoic	K	Mulloman Group, undivided, sandstone and clayey sandstone
Early to Middle Proterozoic	Peh	Hindrance Creek Sandstone, massive medium grained feldspathic and micaceous sandstone, siltstone, fine sandstones
Early Proterozoic	Peg	Eva Valley Granite, porphyritic biotite leucogranite, biotite adamellite, minor xenolithic biotite leucogranite, greisen with minor quartz veins/pods.
	Pdm	Maud Dolerite meta-dolerite
	Pbt ₁	Tollis Formation:
	a	very thinly to medium bedded micaceous shales, siltstones, fine to medium grained sandstones;
	b	chloritic argillites, basaltic dolerite, siliceous dark green meta-tuffs, minor chert and acid volcanics, silic-haematitic to jasperlite to banded iron formation exhalites (bif), rare tourmaline and barite bearing exhalites;
	c	grey to mauve shale, tan siltstone and grey fine to medium grained micaceous sandstone-arkose

after Needham, et al, 1984.

Sandstone consists predominately of feldspathic sandstone, the undivided Mullaman Group consists of sandstones to clayey sandstones.

2.3 History

The Pine Creek Geosyncline sediments were deposited on a crystalline Archean basement. Early geosyncline sediments were regionally metamorphosed to amphibolite facies followed by deformation. Further sedimentation and intrusion by dolerite sills preceded greenschist facies metamorphism and major deformation. Granitic intrusives associated with major refolding occurred in the late development of the Pine Creek Geosyncline. Transitional igneous and felsic volcanic rock and sediments of the EL Sherana and Edith River Groups were deposited in fault controlled depressions of the metamorphic terrain (Stuart-Smith et al, 1984). Later platform cover sedimentary rocks unconformably overlie the Early Proterozoic Pine Creek Geosyncline and remain essentially undisturbed to the present.

2.4 Structure

The Grace Creek Inlier is a section of the Pine Creek Geosyncline exposed in a window of the Proterozoic and younger platform cover rocks. Regional structural elements are not well understood. On the Pine Creek Geosyncline 1:500,000 Sheet (Needham and Stuart-Smith, 1984) a major gravity lineament dissects the Grace Creek Inlier, roughly parallel to the major structural elements in the EL area (NW-NNW). Cross cutting

fractures in a NE (040°) direction as mapped on the BMR Geology of the Yeuralba Region 1:100,000 Sheet (Needham et al, 1984) are indicated in the regional aeromagnetic surveys completed over and around EL 4457.

3. LOCAL GEOLOGY

3.1 Introduction

Four major rock groups are exposed in the Eva Valley area; Tollis Formation, Eva Valley Granite, Hindrance Creek Sandstone and Maud Dolerite. The licence area is part of the Geology of the Yeuralba 1:100.000 Sheet (Needham et al, 1984) and the stratigraphy presented on the map remains unchanged. However, during the Denehurst mapping programme the Tollis Formation was divided into three recognisable sub-units based on dominant lithology. Informal names have not been given to these sub-units. The stratigraphy is summarised in Table 1.

3.2 Tollis Formation (Pbt₁)

This unit is divided into three sub-units, Pbt₁-a, b and c, based on dominant lithologies recognised in the field. Facing direction was not observed but inferred from previous exploration reports based on drilling; the sub-units are described from older to younger on that basis.

3.2.1 Sub-unit Pbt₁-c

This unit outcrops in the eastern part of the Licence area. The unit outcrops generally in

gullies cutting the Cainozoic surface and gutters in existing roads. Dominant lithology is grey, mauve to orange shale, with minor white to grey siltstone and fine sandstone (greywacke?) and grey micaceous feldspathic sandstone. Bedding is only recognisable in the siltstone units with a sub-parallel fracture cleavage. Minor quartz veining is noted in this unit. No contact is observable with Pbt₁-b.

3.2.2 Sub-unit Pbt₁-b

This unit is the predominant sequence over the licence area. The main lithologies are a chloritic ?argillite and a black crystalline, fine to medium grained basalt and ?basaltic dolerite, with minor banded iron formation, rhyolite, and siltstone. The basic volcanics are the hanging wall sequence to the banded iron formation (BIF), rhyolite and siltstone sequence. The BIF and equivalent tourmalinites are interpreted as exhalites (Teluk, 1980). The chloritic argillites and basic volcanics are interpreted as basic tuffs and flows.

Limited intraformational folding is recognisable in the more finely bedded sections of the BIF horizon. The BIF horizon is traceable for approximately eight kilometres with folding and faulting inferred by discontinuation of the

horizon (Teluk, 1980).

Shearing and faulting in the meta-basics produced actinolite-quartz zones with topographically prominent quartz-chert-jasperlite breccias common as fracture fill material. This unit is in sheared contact with Pbt₁-a.

3.2.3 Sub-unit Pbt₁-a

This unit is predominantly in the south-western part of the Licence area. It is typically medium grained siltstones, fine grained sandstones and shales. The unit is partially covered by silica-quartz, cobble-rich skeletal soil; the silica-quartz cobbles are from numerous fracture fill zones.

3.3 Maud Dolerite (Pdm)

This unit forms a linear feature in the south-central part of the Licence area. Outcrop is generally massive, meta-?dolerite with an apron of rounded, cobble to boulder size meta-dolerite fragments. The apron is responsible for this unit being mapped over a large area extent. Different outcrop and weathering patterns are noticeable between the Maud Dolerite and the basaltic-dolerite of Pbt₁-b.

The Maud Dolerite is interpreted as a sill intrusion on into the Tollis Formation before deformation and metamorphism.

3.4 Eva Valley Granite (Peg)

The Eva Valley Granite intrudes the Tollis Formation in the north western part of the Licence area. A number of phases are recognisable. The dominant phase is a porphyritic, biotite leucogranite with lesser porphyritic biotite adamellite and xenolithic, porphyritic, biotite leucogranite. Late stage phases include feldspathisation and greisenisation. The quartz-greisen zones form prominent ridges and are structurally controlled by fractures associated with the granite.

A possible contact phase recognised is a ?microcline-hornblende igneous rock adjacent to outcropping Eva Valley Granite.

A rare berylite ($\text{Be}_2\text{BaSi}_2\text{O}_7$) skarn assemblage was recognised in petrographic studies conducted for Newmont on rocks of the Tollis Formation (sub-unit Pbt₁-b of this study). Interpretation of the aeromagnetic survey of Billiton (1985) revealed a "noisy" magnetic zone adjacent to the granite-sediment contact in the north-east of the Licence area. This, along with the berylite skarn could be interpreted as contact metamorphism of the Tollis Formation.

3.5 Hindrance Creek Sandstone (Peh)

This unit is exposed on the north east fringe of the remaining Licence area. The rock is generally massive, pink to orange, fine to medium grained feldspathic

sandstone, with fine sandstone to siltstone interbeds.

No contact between this unit and the Tollis Formation was observed.

3.6 Cainozoic (Czl, Czs, Czv)

Cainozoic sediments form an alluvial or colluvial veneer over parts of the Licence area. Sporadically developed laterite profiles occur throughout parts of the area, generally pisolitic horizons now exposed in creek banks. Parts of the Pbt₁-b area has loose pisolitic cover; the granite and sandstone outcrop areas have well developed, unconsolidated quartz sand cover. A minor outcrop of fine to medium grained basalt, with a quartz and basalt pebble flow conglomerate to the north-east of the Licence area is possibly Cainozoic. The conglomeratic unit is very limited in outcrop.

3.7 Quaternary

The Quaternary alluvial units are located in present day stream courses and flood plains as sands and gravels. In poorly drained depressions a black-brown clay loam soil is developed.

4. LOCAL STRUCTURE

The structure is dominated by a NW-NNW set of faults and fractures. These are indicated from the 1:100,000 scale BMR mapping (Needham, et al, 1984), Geoflite survey (in Ormsby, 1988) and aeromagnetic surveys flown for Nord (1979) and Billiton (1984). A compilation map of the Geoflite and

aeromagnetic survey interpretation (Fig 20) infers a dominant NW set of lineaments, with secondary NE linear structures.

Correlation with mapped structures is weak with only the prominent quartz-silica filled fracture zones recognised on the geophysical surveys.

Cleavage, where recognised, is sub-parallel to bedding and is probably a fracture cleavage.

5. MINERALISATION

5.1 General

- (i) stratiform, banded iron formation and associated exhalite facies with Cu+Pb+Ag-Au-Sn-Ba;
- (ii) ?stratabound, sheared basic volcanics with Cu+As-Ag-Au;
- (iii) Structural, sheared rock unit contracts with Cu+Au, and minor local shearing/fracturing with Cu+Pb+Au.

The Maud Dolerite contains shear controlled copper mineralisation. The Eva Valley Granite has greisen-quartz zones with weak gold mineralisation.

5.2 Tollis Formation

5.2.1 Stratiform Mineralisation in the BIF

The banded iron formation is described as exhalative in origin varying from silica sulphide to silicate, sulphate-sulphide facies (Teluk, 1980).

Petrographic work on gossans indicated box works after pyrite, pyrrhotite, sphalerite equivalents (tourmalinate and barylite skarn rocks) have minor cassiterite and barite minerals.

Irregular, discontinuous zones in the BIF contain massive silica-chert breccia containing secondary copper mineralisation; malachite, azurite, and possible chenevexite ($2\text{CuO} \cdot \text{Fe}_2\text{O}_3 \cdot \text{As}_2\text{O}_5 \cdot 2\text{H}_2\text{O}$). These zones may be up to 10m wide whereas the normal width of the BIF is 3-5 m.

Gold geochemistry is 0.10ppm - 2.00ppm across channel samples at Ludans.

Newmont studied facies changes in the BIF horizon and concluded the possible exhalative centre was to the north, subsequently stoped out by the intruding Eva Valley Granite (Teluk, 1980).

5.2.2 Stratabound Mineralisation in Sheared Basic Volcanic Rocks

In the remaining Licence area this style of mineralisation is evident in the Copperflower and Ghost Gums areas. The basaltic dolerites and basic tuffs contain sheared chlorite-actinolite rocks with quartz pods and have malachite, azurite and chenevexite as disseminated staining on fracture/shear surfaces.

Gold mineralisation is generally in an oxidised

zone to depths of 35m from surface. Pyrite is present in the mineralised zones below 35m, but is not necessarily associated with good gold grades. The pyrite is disseminated but can be up to 30% of the host rock, a propylitically altered andesitic volcanic.

Channel sampling in costeans across these zones produced high copper (to 10%), gold (to 16 ppm), and arsenic (to 1.6%) geochemistry. Testing this style to depth at Ghost Gums by Nord (1979) indicated possible secondary enrichment to a depth of 15 m. Two phases of reverse circulation drilling is reported in Section seven.

5.2.3 Sheared Contact Pbt₁-a and Pbt₁-b

A curvilinear shear zone separates the sediments of the Pbt₁-a sub-unit from the Pbt₁-b basic volcanic sequence. This shear is continuous in the Licence area and consists of a ferruginous ?hornfels (Needham, et al, 1984) with narrow zones of quartz veins and stringers. The quartz veins contain trace amounts of visible malachite with low geochemistry for copper (max 820 ppm) and gold (max 0.14 ppm) in limited samples taken.

5.2.4 Minor Fracture Mineralisation

Local quartz vein zones in the Tollis Formation contain minor mineralisation. One quartz-veined fracture zone displays visible malachite and

galena, with trace chalcopyrite. This zone is of limited area exposure (10 x 15m) but produced encouraging copper (1.69%), lead (3.79%), arsenic (0.89%), and gold (0.28 ppm) geochemistry.

5.3 Maud Dolerite

A shear zone in the Maud Dolerite extends parallel to the western boundary with Pbt₁-b. This zone contains pods of quartz with visible malachite in the quartz as disseminations, on fracture surfaces, and in the sheared material. This zone outcrops north of Ludans shaft and is inferred to extend further north, as float of similar quartz material with malachite, is located south of Copperflower. Geochemistry is Au to 0.11 ppm, Cu to 6.0% although the zone is narrow (max 23m).

5.4 Eva Valley Granite

The Eva Valley Granite has strong quartz-greisen zones paralleling the dominant NW structural trend. Geochemistry indicates weak tin/tungsten mineralisation (4 ppm Sn, BLD for W) with interesting gold mineralisation (to 0.18 ppm) in the massive quartz zones in the greisen.

6 PREVIOUS EXPLORATION

Previous exploration programs on other tenements covering the same area as EL 4457 were conducted by Geopeko (1966 - 1970), Nord Resources (1977 - 1982), and Newmont (1979). A review of available reports indicates that these companies concentrated on BIF (Banded Iron Formation) hosted base

metal (-gold) style of deposit. Exploration programs consisted of regional to detailed prospect scale, geophysical, geochemical and petrological studies with conclusions generally indicating low potential for a mineral resource in the area.

7 EXPLORATION RESULTS

7.1 Billiton 1984 - 1987

During the first year of tenure Billiton completed a detailed literature review. A detailed low altitude aeromagnetic survey, to study the BIF horizon particularly, was also conducted. The result of the literature review suggested copper-gold potential existed. The result of the geophysics indicated two areas, since relinquished, namely Lancewood Knoll and Twin Ridges, required follow-up work.

During the 1985 field season Billiton carried out a stream sediment sampling programme and a detailed interpretation of aeromagnetic data. The combined results identified Twin Ridges, Ludans (both since relinquished) and Ghost Gum Flats as worthy of further investigation. The relevant results are depicted on map sheets 2 and 5. At this stage the Licence underwent a fifty per cent reduction.

During the third year of tenure covering the 1986 field season, Billiton undertook gridding, ground magnetics, stream sediment sampling, and bulk leach gold soil sampling. These activities were carried out in areas

since relinquished. At this stage the potential for a BIF-hosted gold deposit was considered to be exhausted. Consequently Billiton attracted a joint venture partner, Ken Day Pty Ltd, to manage exploration on the property. A further reduction by fifty percent was deferred until 1988.

7.2 Ken Day Pty Ltd 1987 - 1988

During the 1987 field season Ken Day Pty Ltd (KDPL) conducted a further literature review and assessment, carried out gridding, mapping and sampling at several locations including Ghost Gums and Copperflower, initiated a programme of costeaning which included mapping and sampling, and contracted small-scale metallurgical testing and a low altitude multispectral remote sensing survey (Geoflite).

In general the results enhance the potential of Ghost Gum Flats and Copperflower but provided mixed results from Twin Ridges and Ludans.

The results of the KDPL sampling programme are depicted on map sheets 3, 4 and 13.

The Geoflite survey was assessed as coinciding with known areas of mineralisation. The results of this survey are depicted on map sheet 5.

Several metallurgical samples from Copperflower containing high grades of gold (7.5, 4.6, 2.1 g/t) and copper (0.9%, 0.7%, 9.0%) were submitted to Normet for

evaluation. The conclusion was that high copper concentrates retard gold recovery and increase cyanide consumption. Further testwork was recommended. A copy of Normet's report comprises Appendix III.

7.3 Denehurst Limited 1988 - 1990

In 1988 following purchase of Ken Day Pty Ltd's interest, Denehurst assumed the role previously held by KDPL. Following reduction of the EL to eight blocks and upon reaching an agreement with Billiton and KDPL, Denehurst implemented reconnaissance sampling, bedrock drilling, and intensive sampling and mapping programme and rehabilitation of disturbed areas.

An initial literature review combined with limited reconnaissance sampling was undertaken upon entering the area. The results of these samples are depicted on map sheets 2 and 3.

The bedrock drilling programme utilised an air track reverse air blast drilling rig. A total of 720 samples were obtained from 3017m of drilling. Drilling was carried out at Twin Ridges, Ghost Gum Flats and at Copperflower. The results for Twin Ridges were outlined in a previous relinquishment report (MacKillop, 1989). Map sheets 6 to 9 and 14 to 17 outline the samples, results and geology for Ghost Gums and Copperflower.

Late in the 1988 field season a mapping programme was

initiated which produced a geological map of the Licence (Map Sheet 1) and a detailed geological assessment was made (MacKillop, 1988).

Based on the 1988 results, the joint venture partners reduced the Licence to the remaining configuration of four blocks (Appendix I).

For the 1989 season, exploration was concentrated at Ghost Gum Flats, Copperflower, and the south west block, all assays were conducted by Classic Laboratories, Darwin. Check assays were performed by Australian Analytical Laboratories, Pine Creek.

Encouraging results during the 1988 field programme necessitated follow-up in the south west block. This area is dominated by a shear zone striking north south through the Tollis Formation. A programme comprising geological mapping, stream sediment sampling, rock chip, and soil sampling was initiated over these areas.

All results were uniformly low. Bulk cyanide leach samples taken as part of this programme did not reproduce the results of the 1988 programme. For example the 1988 result of 11.7 ppb Au when resampled yielded 0.50 ppb.

Results of this work are presented in map sheets 10 and 11 due to the poor results no further work was proposed.

At Ghost Gums six reverse circulation (RC) drill holes

totaling 350 metres were completed with two holes being drilled on each of three sections spaced at 50 metres through the main anomalous zone.

Best results were obtained in the oxidised zone (above 20m) directly beneath the main anomaly. No significant intersections were made beneath the oxidised zone.

Significant results are summarised below:

GGRC 1	0-18 m (18)	at	tr 0.27% 0.40%	Au Cu As
GGRC 2	9-19 m (10)	at	tr 0.15% 0.24%	Au Cu As
GGRC 3	0-7 m (7)	at	tr 0.56%	Au Cu
GGRC 4	0-6 m (6)	at	1.05 0.42% 0.33%	Au g/t Cu As

These results are all sub-economic and no further drilling was proposed. Plans and sections are depicted on map sheet 12 and figures 4 to 9.

At the Copperflower Prospect seven holes totaling 371 metres were completed on three lines spaced 50 metres apart in 1988 and an additional eighteen RC holes totaling 756 metres were completed in 1989. This drilling covered the surface expression of the strong gold-copper anomaly earlier delineated by costeaning. The RC drilling was targeted at making intersections in both the oxidised and primary zone on each section.

Due to the difficulty in interpreting the original drilling programme and the apparent reversal of dip of the ore zone from the south to the north, a number of holes in the 1989 program were drilled from east to west. All holes in the earlier program were drilled from west to east.

7.3.1 Results of Drilling

A summary of results from all holes is presented in Table 2. The drill results confirm patchy development of potentially economic to subeconomic mineralisation. This occurs in narrow zones of 1-4 metres width with grades in excess of 5 g/t gold within a much wider zone of lower grade material. Cross sections showing geology (figures 10 to 16) and assay results (figures 17 to 23) are included in the rear pocket.

Figure 24 shows an interpretive surface plan of the mineralisation at Copperflower. This plan incorporates information from the drilling programs along with earlier costean results. Mineralisation appears to be contained within two zones. The southern zone of mineralisation which extends from Section 5100N to 5175N and contains the bulk of the resource and appears to be separated from the northern zone, intersected only on Section 5200N, by a fault. This fault is interpreted to be relatively flat lying and to dip

south, cutting the mineralisation off at approximately 20 metres depth on Section 5152N. This interpreted fault severely limits the ore potential at depth (see figure 25). No mineralisation was detected in drilling south of Section 5096N or north of 5200N.

The observed mineralisation at the surface corresponds closely with rocks mapped in the costeans as ferruginous and chloritic altered rocks, interpreted by KDPL (responsible for the costeaning program) as altered dolerite. The drilling however did not find evidence to support this association of mineralisation with altered dolerite. Logging of chips indicates that the host rock is a propylitically altered andesitic volcanic. No evidence of dolerite was found in drilling. Near complete oxidation has taken place above 20 metres. Below this depth the mineralisation is often associated with pyritic zones (up to 30%) though the best gold values do not necessarily correlate with the high pyrite zones.

The geometry of the ore zone at the southern end varies considerably from that at the north. On Section 5100N the ore is confined to a single narrow zone (up to 4 metres in width) with a steep easterly dip. Twenty-five metres to the north a number of steep sub parallel zones are recognised

Table 2

Copperflower Prospect
1989 Drilling Results

Cut off of 0.5 g/t Au or 1% Cu.

<u>Hole No</u>		<u>From</u>	<u>To</u>	<u>Metres</u>	<u>Au g/t</u>	<u>Cu %</u>
CFRC 1	ox	13	17	4	1.31	0.53
	prim	30	43	13	3.38	0.93
CFRC 2	ox/prim	25	32	7	1.63	0.28
CFRC 3	ox	4	16	12	0.22	2.21
CFRC 4	ox	0	18	18	1.59	1.35
CFRC 5	ox	5	9	4	0.03	1.31
CFRC 6	prim	28	29	1	2.03	1.45
CFRC 7	ox/prim	19	32	13	1.70	1.24
CFRC 8		no significant intersection				
CFRC 9		no significant intersection				
CFRC 10		no significant intersection				
CFRC 11	ox	12	24	12	0.80	0.39
	prim	51	55	4	1.44	0.26
CFRC 12	ox	4	9	5	0.92	0.69
	ox	13	14	1	2.90	0.75
	prim	28	36	8	2.04	0.45
CFRC 13	ox	12	20	8	3.60	0.84
CFRC 14		no significant intersection				
CFRC 15		no significant intersection				
CFRC 16		no significant intersection				
CFRC 17		no significant intersection				
CFRC 18	ox/prim	19	27	8	0.19	1.06
CFRC 19	ox	5	14	9	0.07	1.20
CFRC 20		no significant intersection				
CFEC 21	ox/prim	0	25	25	1.54	0.55
CFRC 22	ox	15	17	2	2.08	0.92
	prim	24	39	15	1.99	0.78
CFRC 23	ox	15	21	6	0.82	1.01
	prim	40	46	6	2.41	0.26
	prim	48	53	5	1.15	0.11
CFRC 24	ox	14	16	2	1.10	0.87
CFRC 25		no significant intersection				

ranging from 1 to 4 metres thick and with grades from 1 g/t Au to 10 g/t Au. These lie within an overall envelope of mineralisation grading generally greater than 0.5 g/t Au. The envelope defines a steeply dipping zone approximately 30 metres wide at the surface narrowing to 10 metres wide at 50 metres depth. On Section 5150N mineralisation does not extend beneath 20 metres depth with the high gold grades cut by costean E not confirmed by the drilling. As noted this is interpreted to be due to faulting of the mineralisation. A similar picture emerges on Section 5175N though in this case no values were recorded in drilling despite an intersection of 13m at 3.4% Cu in costean F. The high values at surface on Section 5175N and 5150N are presumed to relate to surface enrichment.

The northern zone of mineralisation has been intersected only on Section 5200N. Mineralisation here is of higher grade and shows different geometry. The main ore zone, shows a steep easterly dip to approximately 25 metres depth and thence reversal to a westerly dip of 45°. Patchy low grade mineralization occurs in the "hangingwall", west of the main lode on this section.

7.3.2 Resource Estimate

A preliminary resource calculation has been completed for the Copperflower Prospect based on drilling and costeaning results.

Assumptions used in this estimate are summarised below:

- a) A cut off grade of 0.5 g/t Au has been applied, though mineralisation where the Au content is less than this figure is included if Cu is 1.0% or greater.
- b) Resources have been separately estimated for the oxide and sulphide mineralisation. In the absence of any data, nominal specific gravities of 2.3 for oxide mineralisation and 2.7 for sulphide ore have been used.
- c) Volumes were estimated by projecting the area contained within the cut-off boundary on each section halfway to the adjacent section. Grade was estimated by a simple weighted average (with no cutting) of all assays occurring within the nominated outline.
- d) Reserves are calculated to a depth of -50m except where drilling indicates a closing off of the mineralised zone above this.
- e) The low grade mineralisation on Section 5200N has been estimated separately.

The results are presented in Table 3.

Exploration at Copperflower has demonstrated the

Table 3

Copperflower Resources

	<u>Section No</u>	<u>Tonnes</u>	<u>g/t Au</u>	<u>% Cu</u>
<u>Southern Zone</u>				
<u>Oxide</u>				
	5096	2,732	1.15	0.88
	5122	20,012	1.72	2.07
	5152.5	18,164	1.91	1.35
	5175	0	0	0
subtotal		40,909	1.77	1.67
<u>Sulphide</u>				
	5096	5,322	2.00	1.46
	5122	42,333	1.74	0.51
	5152.5	0	0	0
	5175	0	0	0
subtotal		47,654	1.77	0.62
TOTAL		88,563	1.77	1.11
<u>Northern Zone</u>				
<u>Oxide</u>				
	5204	5,348	3.69	0.97
<u>Low Grade Oxide</u>				
	5204	15,468	0.91	0.45
subtotal		20,815	1.62	0.58
<u>Sulphide</u>				
	5204	22,478	2.42	0.58
TOTAL (inc. low grade)		43,293	2.04	0.58
TOTAL (exc. low grade)		27,825	2.66	0.66
<u>SUMMARY</u>				
Total Oxide (exc. low grade)		46,256	1.99	1.59
Total Sulphide		70,132	1.98	0.61
TOTAL (exc. low grade)		116,388	1.98	1.00
Low grade oxide		15,468	0.91	0.45
TOTAL (inc. low grade)		131,856	1.86	0.93

presence of a small gold - copper resource of 116,000 tonnes at approximately 2 g/t Au and 1% Cu to a depth of 50 metres. Of this resource 46,250 tonnes is oxidised. Mineralisation is irregular and appears to be cut by at least one major fault.

Following a meeting between Billiton and Denehurst Limited agreement was reached to maintain tenure over Copperflower and possible extensions to the mineralisation. Hence six Mineral Claims were surveyed and an application was submitted to the Northern Territory Department of Mines and Energy on 7th March 1990. Appendix II depicts the plan of the claims applied for.

8. CONCLUDING STATEMENTS

Since 1984, Billiton, Ken Day Pty Ltd, and Denehurst Limited separately conducted exploration on EL 4457 under Joint Venture agreements, the current Joint Venturers, Billiton and Denehurst, have proved the existence of a small resource which will be retained under several Mineral Claim applications. The potential of the south-west block is unfounded and drilling at Ghost Gum Flats indicated that patchy, uneconomic mineralisation did not warrant further exploration.

9. EXPENDITURE

For period ending March 20 1990.

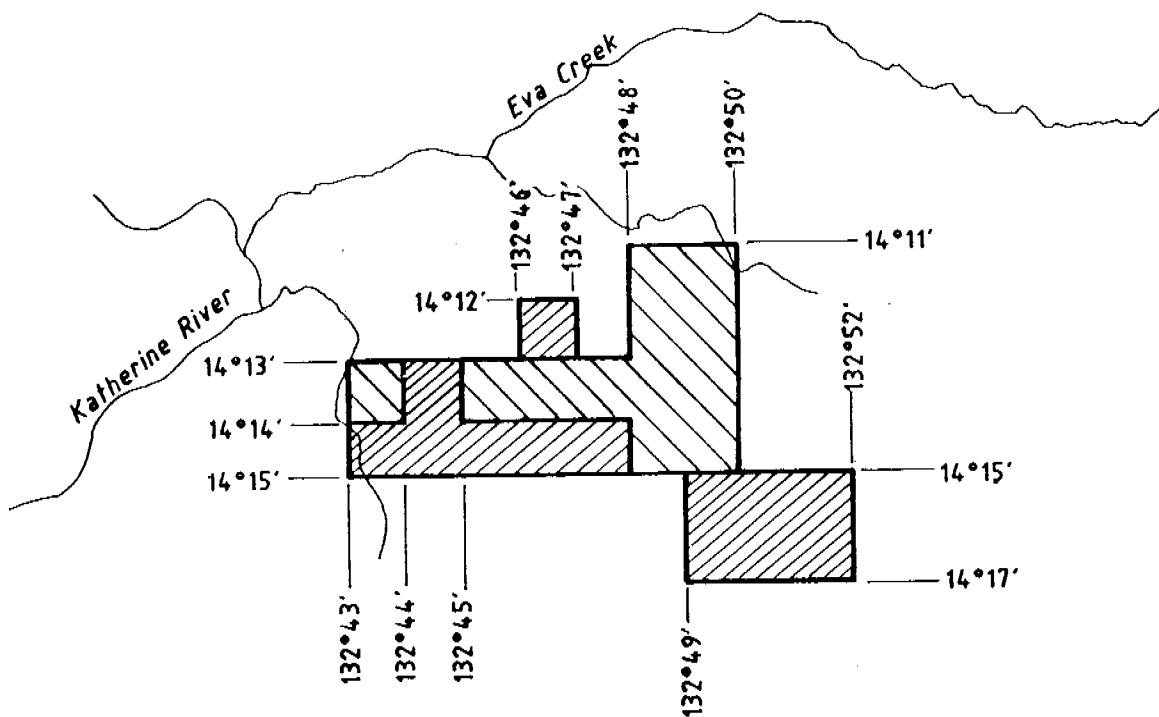
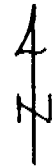
	\$
Salaries & Wages	35,235
Field Expenses/Accommodation	6,064
Office Expenses	2,101
Vehicle/Travel	4,025
Drafting/Map Preparation	7,968
Assaying	22,579
Contractors	1,406
Drilling	43,446
Total	<u>122,822</u>
Overheads @ 30%	36,847
Total	<u><u>159,669</u></u>

10. REFERENCES

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APPENDIX I

Reduction Maps



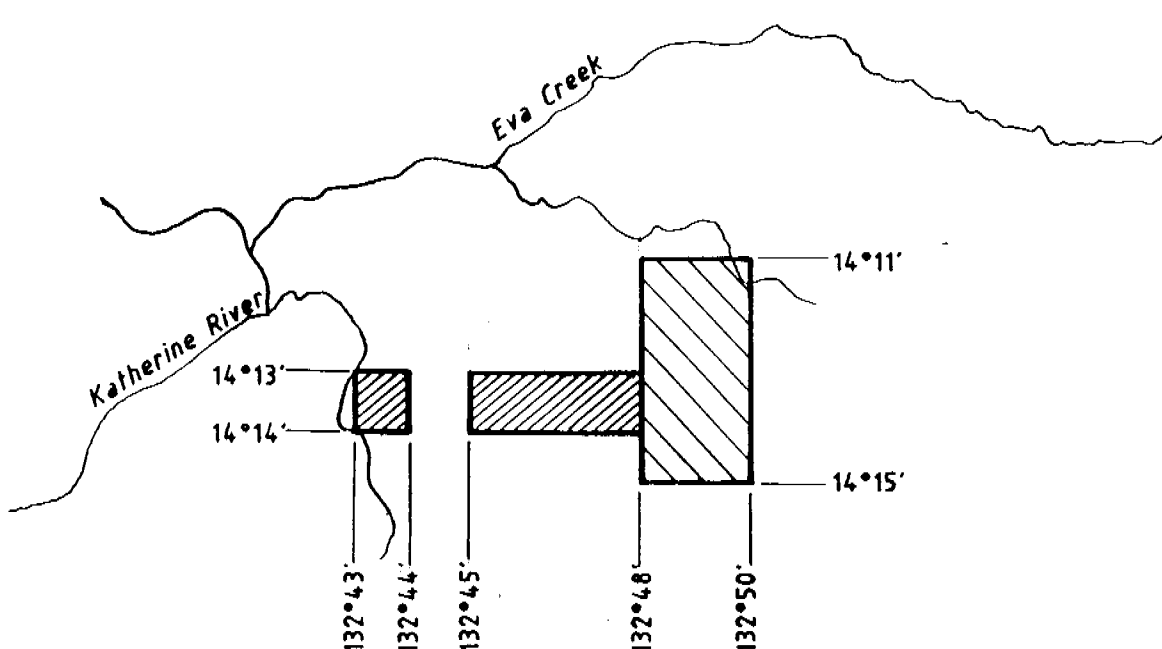
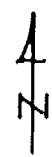
Relinquished areas



Areas to be retained



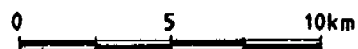
EVA VALLEY N.T.
EL 4457
1986 REDUCTION



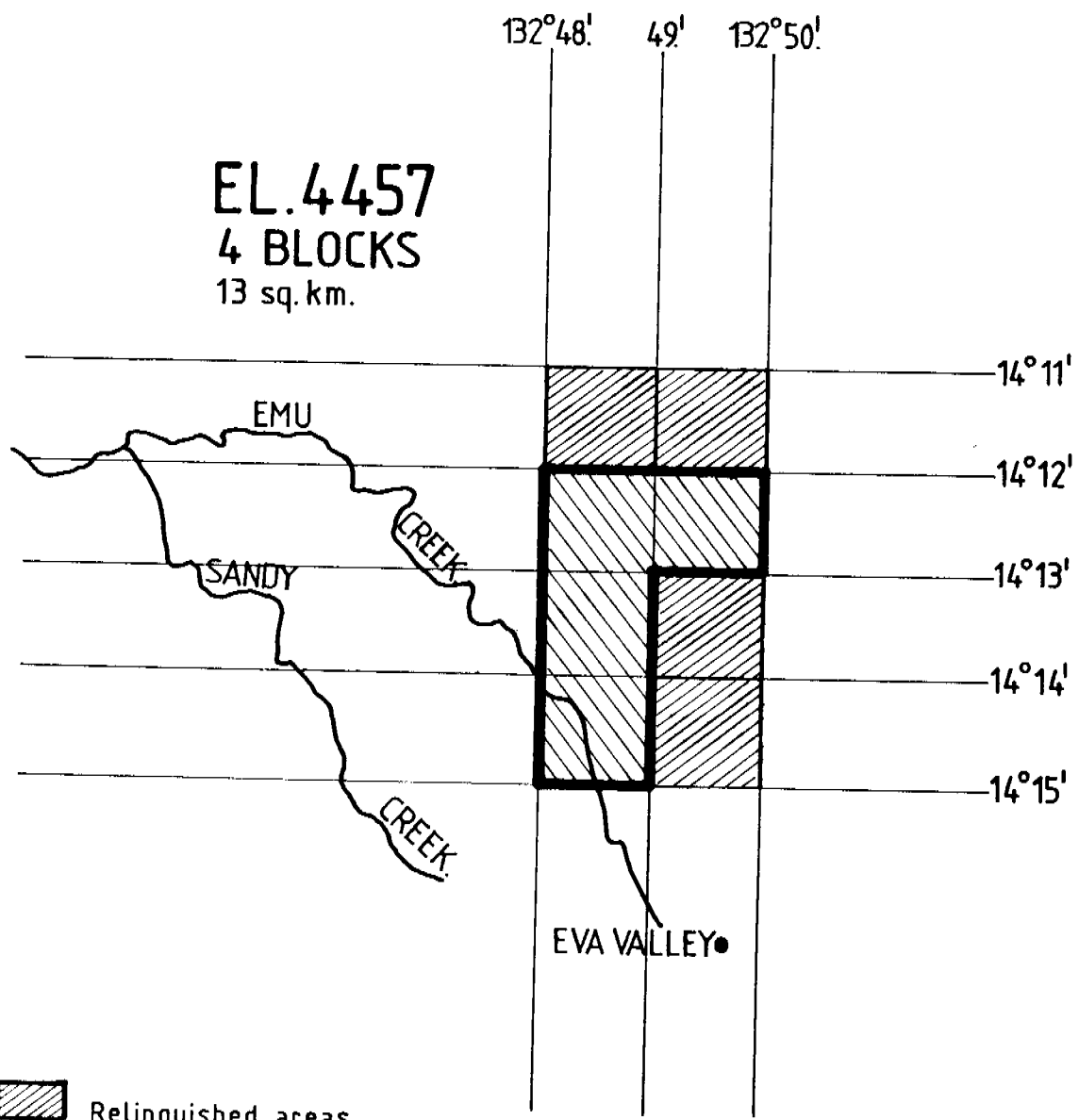
Relinquished areas



Area to be retained



EVA VALLEY N.T.
EL 4457
1988 REDUCTION

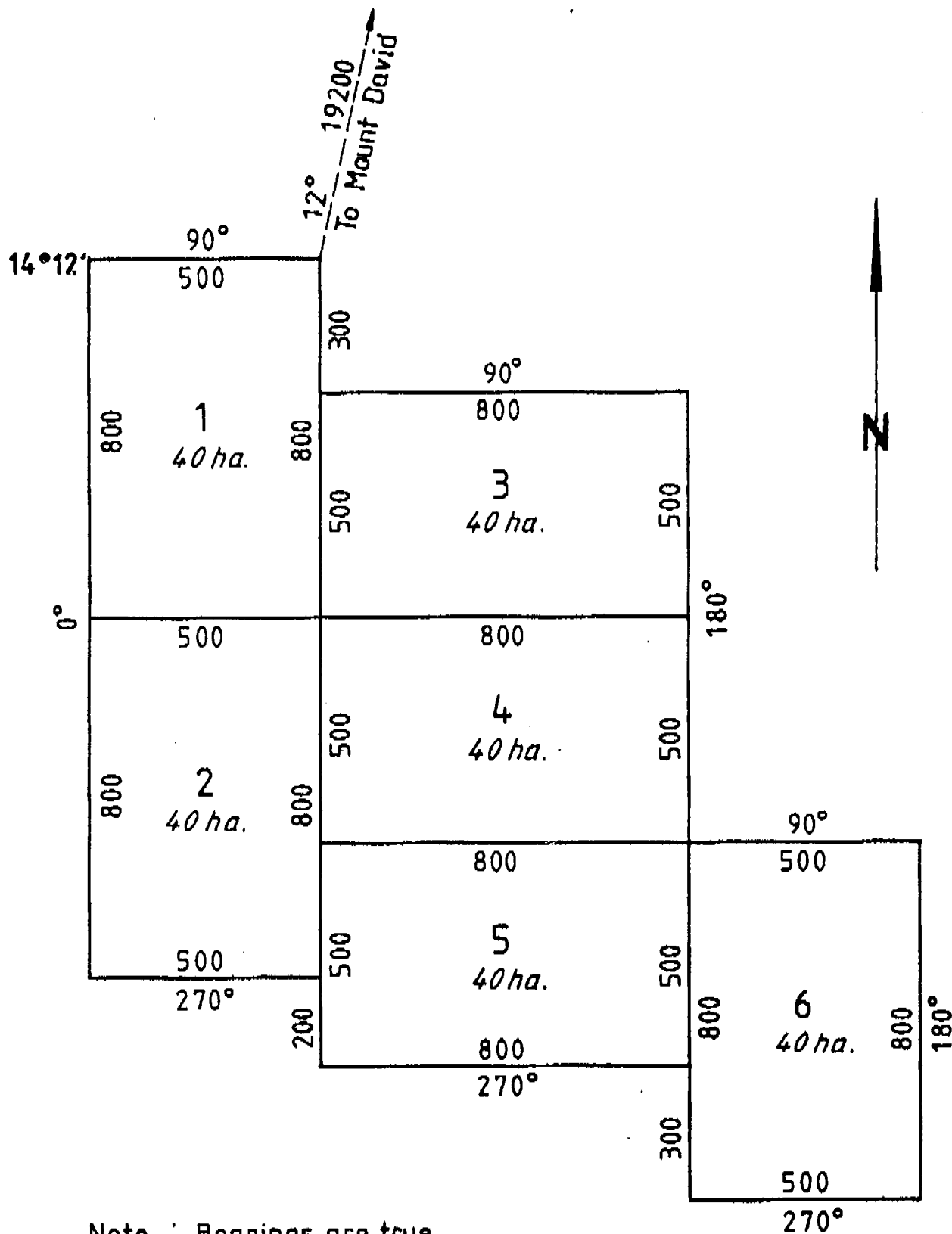


EVA VALLEY N.T.
EL 4457

1989 REDUCTION

APPENDIX II

Plan of Mineral Claims



Note : Bearings are true.

DESIGNED	K.S.	TRACED		 GUTTERIDGE HASKINS & DAVEY PTY LTD ENGINEERS • PLANNERS • SURVEYORS	SCALE 1:1250
DRAWN	R.V.	CHECKED			
SUBMITTED				DENEHURST LIMITED	431-10085-1
APPROVED	<i>[Signature]</i>			MINERAL CLAIMS	
DATE	1/3/90			EVA VALLEY LOCALITY	

APPENDIX III

Normet Report

NORMET

PTY
LTD

*Complete Metallurgy
Services for Miners*

REPORT

ON

GRIND AND CYANIDATION TESTS

CONDUCTED ON

THREE ORE SAMPLES

Client : Territory Resources NL

Date : 8 March 1988

Job No : DL88/011

PERTH
Premises
6 AITKEN WAY
KEWDALE PERTH
Postal
PO BOX 852
CLOVERDALE WA 6105
PHONE (09) 353 3023
FAX (09) 353 1028

DARWIN
Premises
1396 REICHARDT ROAD
WINNELLIE DARWIN
Postal
PO BOX 39015
WINNELLIE NT 5789
PHONE (089) 84 3395
84 3438
FAX (089) 84 3693

TOWNSVILLE
Premises
62 WALKER STREET
TOWNSVILLE
Postal
PO BOX 503
GARBUTT QLD 4814
PHONE (077) 211 737
FAX (077) 211 737

NORMET

INTRODUCTION

Mr Ian Wright of Territory Resources NL submitted three ore samples for assay, grinding, and cyanidation tests.

PROCEDURE

Each of the three samples were crushed to approximately -2 mm and sub-samples split out for head assay.

Sighter grinds were conducted on each sample for determination of grinding time required to achieve 80% passing 75 micron. Grinds were conducted on 1 kg samples.

Bottle rolls were carried out on each sample in alkaline cyanide solution for 24 hours. Cyanide levels were checked after 2 and 6 hours to ensure free cyanide was present. On completion of the test pH, cyanide, gold, and copper content was determined in solution. Assays were also conducted on residue samples.

All samples were assayed by Australian Assay Laboratories, Pine Creek, NT.

RESULTS

The results for cyanidation testwork are presented in the following tables:

Table 1 Head Assays

Table 2 Bottle Roll Data

DISCUSSION

Head assay results are shown in Table 1. Correlation between head assays and calculated heads from bottle roll data are acceptable for samples 1 and 2. There is a discrepancy between these two values in sample 3. Free gold was observed in all samples on grinding which may account for this difference.

High copper content of ore can cause interference during fire assaying of gold. The exceptionally high grade determined in sample 3 may also account for assay discrepancies.

Discussion (continued)

Gold extractions for samples 1 and 2 (Table 2) were 85.1% and 83.8% respectively. Relatively high reagent additions were required to achieve this however. The poor gold extraction for sample 3 was almost certainly due to the excessive copper content of the sample. High copper levels (9%-10%) would also have caused the very high cyanide consumption (28.57 kg/t) for this sample.

Cyanide soluble copper consumes oxygen during leaching and in the case of sample 3 resulted in an oxygen deficient pulp. The presence of dissolved oxygen is essential for gold dissolution and if levels fall below 4 ppm then the rate of dissolution is reduced.

CONCLUSION

Gold ores containing such high copper concentrations generally exhibit low recoveries and high cyanide consumptions.

Treating ores of the testwork type by conventional cyanidation methods may be uneconomic particularly in the case of sample 3.

Both gold and copper grades are high enough for economic recovery. However it is necessary to remove the copper prior to gold cyanidation.

It is recommended that further testwork be conducted to determine a method suitable for recovering copper either by leaching or flotation. Higher gold recoveries could then be expected.

NORMET

Table 1
Head Assays

Sample		Assays (g/t)*	Average (g/t)
1	Au	7.53, 7.41, 7.55, 7.49	7.50
	Cu	9450, 9220	9335
2	Au	4.49, 4.47, 4.64, 4.63	4.56
	Cu	7140, 7300	7220
3	Au	2.10, 2.10, 2.11, 2.14	2.11
	Cu	8.89%, 9.19%	9.04%

* Assays in g/t unless otherwise stated

Table 2
Bottle Roll Data

Sample	% Solids	Cyanide Consumption (kg/t)	Lime Addition (kg/t)	Final pH	DO (ppm)	Grind % -75 micron	Residue Assay (g/t)*	Liquor Assay (g/t)*	Calc Head (g/t)*	Assay Head (g/t)*	% Extn
1	48.3	4.15	4.44	9.8	6.7 initial	95.3	Au 1.13	6.04	7.59	7.50	85.1
					4.2 final		Cu 1.08%	1415	1.22%	9335	11.6
2	48.8	4.01	4.25	10.1	4.5 initial	91.0	Au 0.62	3.07	3.84	4.56	83.8
					4.2 final		Cu 7620	1515	9135	7220	16.6
3	47.6	28.57	4.54	10.4	0.0 initial	76.8	Au 0.79	0.01	0.80	2.11	1.2
					4.5 final		Cu 9.98%	1498	10.13%	9.04%	1.5

Bottle rolls were conducted for 24 hours in Darwin tap water

* Assays in g/t unless otherwise stated

APPENDIX IV

Assay Data Sheets

APPENDIX IV

Assay Data Sheets

South West Block
1989



Job: 9AD0643

O/N: 9DN0344

ANALYTICAL REPORT

SAMPLE	As
SS25851-80#	40
SS25854-80#	68
SS25857-80#	46
SS25860-80#	16
SS25864-80#	24
SS25867-80#	48
SS25891-80#	26
RC25823	240
RC25832	250
RC25848	190
RC25876	40
RC25893	410
SO25824-80#	50
SO25825-80#	78
SO25826-80#	130
SO25827-80#	48
SO25828-80#	36
SO25829-80#	70
SO25830-80#	26
SO25831-80#	24
SO25833-80#	130
SO25834-80#	76
SO25835-80#	62
SO25836-80#	30
SO25837-80#	105

UNITS ppm
SCHEME XRF1



Job: 9AD0643

O/N: 9DN0344

ANALYTICAL REPORT

SAMPLE	As
S025838-80#	115
S025839-80#	145
S025840-80#	17
S025841-80#	32
S025842-80#	19
S025843-80#	11
S025844-80#	14
S025845-80#	19
S025846-80#	24
S025847-80#	26
S025868-80#	48
S025869-80#	62
S025870-80#	46
S025871-80#	52
S025872-80#	76
S025873-80#	30
S025874-80#	13
S025875-80#	14
S025877-80#	8
S025878-80#	7
S025879-80#	6
S025880-80#	6
S025881-80#	26
S025882-80#	52
S025883-80#	34

UNITS ppm
SCHEME XRF1



Job: 9AD0643
O/N: 9DN0344

ANALYTICAL REPORT

SAMPLE	As
S025884-80#	28
S025885-80#	38
S025886-80#	12
S025887-80#	17
S025888-80#	17
S025889-80#	16
UNITS	ppm
SCHEME	XRF1

Analysis code AAS8
AAS1

Report 9DN0344

Page G1

Order No. 2899,2900

Results in ppm

Sample	Au	Cu	Pb	Zn
SO 25824 -80#	<0.01	260	17	15
SO 25825 -80#	<0.01	355	23	6
SO 25826 -80#	<0.01	215	17	27
SO 25827 -80#	<0.01	215	15	15
SO 25828 -80#	<0.01	150	17	22
SO 25829 -80#	<0.01	86	13	9
SO 25830 -80#	<0.01	37	12	6
SO 25831 -80#	<0.01	31	14	5
SO 25833 -80#	<0.01	1220	24	22
SO 25834 -80#	<0.01	270	20	12
SO 25835 -80#	<0.01	190	23	12
SO 25836 -80#	<0.01	65	17	8
SO 25837 -80#	<0.01	230	22	8
SO 25838 -80#	0.09	300	14	10
SO 25839 -80#	0.03	215	10	4
SO 25840 -80#	<0.01	30	130	3
SO 25841 -80#	<0.01	21	130	12
SO 25842 -80#	<0.01	15	14	4
SO 25843 -80#	0.03	16	12	3
SO 25844 -80#	<0.01	39	6	3
SO 25845 -80#	0.05	34	13	8
SO 25846 -80#	<0.01	51	8	2
SO 25847 -80#	0.07	90	17	5
SO 25868 -80#	<0.01	145	12	7
SO 25869 -80#	<0.01	195	10	52
SO 25870 -80#	<0.01	305	53	2
SO 25871 -80#	<0.01	240	8	6
SO 25872 -80#	<0.01	295	7	2
SO 25873 -80#	0.01	120	6	3
SO 25874 -80#	0.02	44	7	<2
SO 25875 -80#	<0.01	47	6	5
SO 25877 -80#	<0.01	28	<5	<2
SO 25878 -80#	0.05	13	<5	3
SO 25879 -80#	0.07	12	11	4
SO 25880 -80#	<0.01	11	7	5
SO 25881 -80#	<0.01	51	16	3
SO 25882 -80#	<0.01	92	15	<2
SO 25883 -80#	<0.01	70	9	<2
SO 25884 -80#	<0.01	72	10	<2
SO 25885 -80#	0.03	195	8	4
Detn limit	(0.01)	(2)	(5)	(2)

Analysis code AAS8
AAS1

Report 9DN0344

Page G2

Order No. 2899,2900

Results in ppm

Sample	Au	Cu	Pb	Zn	Weight(grms)
SO 25886 -80#	<0.01	54	7	<2	
SO 25887 -80#	0.04	130	10	5	
SO 25888 -80#	0.05	66	8	<2	
SO 25889 -80#	<0.01	30	11	6	
SS 25851 -80#	0.02	59	13	14	
SS 25854 -80#	<0.01	120	37	16	
SS 25857 -80#	0.03	29	41	6	
SS 25860 -80#	0.03	24	9	<2	
SS 25864 -80#	<0.01	220	32	45	
SS 25867 -80#	0.06	215	69	48	
SS 25891 -80#	<0.01	140	39	27	
PC 25850	<0.01	66	30	330	26.20
PC 25853	<0.01	65	38	415	21.63
PC 25856	<0.01	22	22	160	23.47
PC 25859	<0.01	35	18	120	22.55
PC 25863	<0.01	93	49	235	7.15
PC 25866	<0.01	155	77	140	26.59
Detn limit	(0.01)	(2)	(5)	(2)	

Analysis code AAS7
AAS1

Report 9DN0344

Page G3

Order No. 2899,2900

Results in ppm

Sample	Au	Cu	Pb	Zn
RC 25823	<0.01	335	18	8
RC 25832	<0.01	680	<5	17
RC 25848	<0.01	285	500	115
RC 25876	<0.01	86	10	2
RC 25893	<0.01	100	69	230
Detn limit	(0.01)	(2)	(5)	(2)

ANALYSIS

SAMPLE MARK	Au ppb	Cu ppm
25849	0.36	94
25852	0.31	175
25855	0.36	22
25858	0.20	24
25861	0.50	260
25862	0.51	205
25865	1.32	195
25890	0.59	145
25892	0.51	165

METHOD : BLEG2 ; AAS1



Job: 9AD0511

O/N: 9DN0296

ANALYTICAL REPORT

SAMPLE	As	Sn
25801A	24	6
25801B	94	28
25802	190	<4
25803	62	10
25804	17	<4
25805	670	4
25806	26	<4
25807	92	10
25808	22	8
25809	13	10
25810	78	6
25811	10	6
25812	320	64
25813	94	<4
25814	145	<4
25815	64	6
25816	28	10
25817	11	54
25818	10	6
25819	28	8
25820	30	4
25821	26	8
25822	78	4
UNITS SCHEME	ppm XRF1	ppm XRF1

Analysis code AAS8
AAS1

Report 9DN0296

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Order No. 2907

Results in ppm

Sample	Au	Cu	Pb	Zn
RC 25801A	<0.01	31	24	9
RC 25801B	<0.01	50	15	10
RC 25802	<0.01	80	12	5
RC 25803	<0.01	39	19	17
RC 25804	0.01	44	11	5
RC 25805	<0.01	355	4160	450
RC 25806	<0.01	61	64	8
RC 25807	<0.01	760	18	28
RC 25808	<0.01	39	<5	2
RC 25809	<0.01	130	6	8
RC 25810	<0.01	340	120	125
RC 25811	<0.01	205	9	33
RC 25812	0.02	28	34	14
RC 25813	<0.01	880	15	24
RC 25814	<0.01	240	9	8
RC 25815	<0.01	155	<5	5
RC 25816	0.01	300	6	4
RC 25817	0.01	35	7	18
RC 25818	<0.01	16	6	36
RC 25819	<0.01	31	15	8
RC 25820	<0.01	14	9	4
RC 25821	<0.01	27	11	9
RC 25822	<0.01	265	235	18
Detn limit	(0.01)	(2)	(5)	(2)

Note! Two samples marked 25801 received , now marked A & B

APPENDIX IV

Assay Data Sheets

Ghost Gums Flat
RC Drilling

1989

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Analytical Laboratories (INC. IN WA.)

Analysis code AAS7
AAS1

Report 9DN0786

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Order No. 2535

Results in ppm

Sample		Au	Cu	Pb	Zn
32003		Listed Not Received			
32004	0.10	0.07	2000	8	81
32005		0.07	1280	7	68
32006		0.06	1360	29	55
32007		0.05	1500	7	93
32008		0.08	2160	10	69
32009		<0.01	2080	<5	74
32010		<0.01	2700	<5	89
32011		0.03	1660	28	97
32012		0.02	1600	100	96
32013		<0.01	2460	78	72
32014		<0.01	5100	44	115
32015		<0.01	6850	26	130
32016		0.04	7650	38	45
32017		0.07	8200	55	93
32018		0.04	1800	12	100
32019		0.02	680	8	87
32020		<0.01	455	<5	71
32021		<0.01	205	7	100
32022		0.03	275	11	99
32023		0.05	260	9	97
32024		<0.01	350	9	115
32025		<0.01	400	9	115
32026		0.02	700	7	105
32027		<0.01	1360	12	110
32028		<0.01	630	10	115
32029		<0.01	360	6	120
32030		<0.01	230	<5	100
32031		<0.01	250	<5	99
32032		<0.01	300	7	115
32033		<0.01	310	6	120
32034		<0.01	160	6	125
32035	<0.01	<0.01	120	<5	125
32036		<0.01	160	6	120
32037		<0.01	200	<5	105
32038		<0.01	160	<5	93
32039		<0.01	240	<5	92
32040		<0.01	160	<5	80
32041		<0.01	135	<5	82
32042		<0.01	185	<5	93
Detn limit		(0.01)	(2)	(5)	(2)

Analysis code AAS7
AAS1

Report 9DN0786

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Order No. 2535

Results in ppm

Sample		Au	Cu	Pb	Zn
32043		<0.01	105	<5	83
32044		<0.01	175	<5	77
32045		<0.01	135	8	67
32046		<0.01	135	<5	88
32047		<0.01	230	10	105
32048		<0.01	240	14	110
32049		<0.01	200	9	93
32050		<0.01	105	<5	100
32051		<0.01	89	8	95
32052		<0.01	255	<5	125
32053	<0.01	<0.01	160	6	97
32054		<0.01	245	11	105
32055		<0.01	205	12	120
32056		<0.01	130	<5	110
32057		<0.01	93	<5	97
32058		<0.01	295	7	94
32059		<0.01	115	<5	97
32060		<0.01	180	14	75
32061		<0.01	230	<5	61
32062		<0.01	165	<5	84
32063		<0.01	110	<5	69
32064		<0.01	83	<5	70
32065		<0.01	99	6	81
32066		<0.01	155	<5	65
32067		<0.01	86	<5	65
32068		<0.01	110	<5	70
32069		<0.01	120	<5	77
32070		<0.01	93	<5	92
32071		<0.01	210	<5	84
32072	<0.01	<0.01	205	<5	81
32073		<0.01	180	14	105
32074		Listed Not Received			
32075		Listed Not Received			
32076		<0.01	115	<5	87
32077		<0.01	280	<5	89
32078		<0.01	190	<5	70
32079		<0.01	245	21	98
32080		0.01	285	<5	98
32081		<0.01	215	10	7
32082	0.02	<0.01	185	<5	86
Detn limit		(0.01)	(2)	(5)	(2)

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Analysis code AAS7
AAS1

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Order No. 2535

Results in ppm

Sample		Au	Cu	Pb	Zn
32083		<0.01	150	<5	96
32084		<0.01	240	16	89
32103		0.06	250	59	56
32104		0.02	170	11	60
32105		<0.01	165	13	60
32106		<0.01	190	<5	51
32107		<0.01	1480	<5	91
32108		<0.01	345	<5	110
32109		<0.01	740	<5	120
32110		<0.01	1640	<5	110
32111		<0.01	1820	8	100
32112		<0.01	1600	26	120
32113		<0.01	770	47	52
32114		<0.01	1040	17	75
32115		<0.01	2000	13	115
32116		<0.01	1780	<5	150
32117		<0.01	2460	16	110
32118		<0.01	2200	13	96
32119		<0.01	1440	14	92
32120		<0.01	330	<5	76
32121	<0.01	<0.01	245	<5	92
32122		<0.01	160	<5	86
32123		<0.01	340	<5	78
32124		<0.01	1120	10	98
32125		<0.01	235	9	80
32126		<0.01	150	8	110
32127		<0.01	155	12	125
32128		<0.01	235	10	120
32129		<0.01	250	14	115
32130	<0.01	<0.01	205	44	160
32131		<0.01	255	15	140
32132		<0.01	195	12	140
32133		<0.01	305	19	150
32134		<0.01	175	12	145
32135		<0.01	265	20	140
32136		<0.01	190	<5	110
32137		<0.01	91	<5	110
32138		<0.01	85	7	110
32139		<0.01	100	<5	125
32140		<0.01	95	11	130
Detn limit		(0.01)	(2)	(5)	(2)

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Analysis code AAS7
AAS1

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Order No. 2535

Results in ppm

Sample	Au		Cu	Pb	Zn
32141	<0.01		195	11	105
32142	<0.01		95	6	115
32143	<0.01		99	7	105
32144	<0.01		94	8	105
32145	<0.01		1160	14	80
32146	<0.01		240	14	150
32302	1.43	1.65	9350	480	220
32303	0.50	0.52	3260	315	89
32304	2.05	2.20	3960	880	72
32305	1.30	1.30	5200	395	105
32306	0.60	0.60	3320	275	74
32307	0.23	0.24	4440	110	85
32308	0.10	0.12	4380	53	86
32309		0.10	4400	27	135
32310		0.04	1800	11	135
32311		0.04	3060	13	165
32312		<0.01	2420	18	140
32313		<0.01	1520	<5	135
32314		0.03	850	6	135
32315		<0.01	500	7	145
32316		<0.01	240	12	105
32317		<0.01	255	10	145
32318		<0.01	155	<5	115
32319		<0.01	125	<5	100
32320		0.02	260	<5	130
32321		<0.01	390	7	130
32322		<0.01	350	11	125
32323		<0.01	180	<5	99
32324		<0.01	405	<5	115
32325		<0.01	235	8	115
32326		<0.01	115	<5	95
32327	<0.01	<0.01	110	<5	110
32328		<0.01	97	<5	100
32329		<0.01	190	10	120
32330		<0.01	115	6	100
32331		<0.01	89	<5	105
32332		<0.01	68	395	550
32333		<0.01	120	23	170
32334		<0.01	98	31	165
32335		<0.01	105	16	105
Detn limit	(0.01)		(2)	(5)	(2)

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Analysis code AAS7
AAS1

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Order No. 2535

Results in ppm

Sample		Au	Cu	Pb	Zn
32336		<0.01	100	12	100
32337		<0.01	55	15	130
32338		<0.01	480	32	135
32339		0.01	140	21	120
32340		0.01	160	10	140
32341		<0.01	150	10	130
32342	<0.01	<0.01	105	<5	105
Detn limit		(0.01)	(2)	(5)	(2)

Analysis code AAS7
AAS1

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Order No. 2535

Results in ppm

Sample		Au	Cu	Pb	Zn
20582		<0.01	10	30	12
20583	<0.01	<0.01	<2	10	11
20584		<0.01	9	16	9
20585		<0.01	<2	8	12
20586		<0.01	11	13	15
20587		<0.01	<2	<5	4
20588		<0.01	<2	<5	11
20589		<0.01	<2	6	5
20590		<0.01	3	<5	9
Detn limit		(0.01)	(2)	(5)	(2)



Job: 9AD1107

O/N: 9DN0786

ANALYTICAL REPORT

SAMPLE	As
32004	800
32005	880
32006	930
32007	1520
32008	850
32009	1350
32010	1380
32011	1440
32012	1680
32013	1820
32014	1540
32015	1980
32016	9700
32017	3.75%
32018	8700
32019	2550
32020	1120
32021	240
32022	330
32023	460
32024	770
32025	800
32026	1220
32027	2150
32028	1440
UNITS	ppm
SCHEME	XRF1
UPPER SCHEME	XRF2



Job: 9AD1107

O/N: 9DN0786

ANALYTICAL REPORT

SAMPLE	As
32029	920
32030	550
32031	460
32032	1600
32033	2350
32034	1180
32035	590
32036	990
32037	640
32038	550
32039	1160
32040	1160
32041	650
32042	1000
32043	740
32044	520
32045	620
32046	620
32047	920
32048	1040
32049	700
32050	130
32051	64
32052	88
32053	340
UNITS	ppm
SCHEME	XRF1



Job: 9AD1107

O/N: 9DN0786

ANALYTICAL REPORT

SAMPLE	As
32054	760
32055	210
32056	78
32057	80
32058	1050
32059	88
32060	1220
32061	320
32062	70
32063	70
32064	55
32065	135
32066	185
32067	76
32068	15
32069	98
32070	78
32071	300
32072	60
32073	65
32076	10
32077	78
32078	165
32079	22
32080	82
UNITS	ppm
SCHEME	XRF1



Job: 9AD1107

O/N: 9DN0786

ANALYTICAL REPORT

SAMPLE	As
32081	260
32082	540
32083	78
32084	1240
32103	4100
32104	1050
32105	930
32106	1040
32107	1100
32108	1420
32109	2650
32110	3050
32111	3150
32112	5000
32113	3150
32114	2600
32115	2700
32116	1880
32117	2150
32118	1640
32119	1550
32120	350
32121	130
32122	65
32123	145
UNITS	ppm
SCHEME	XRF1



ANALYTICAL REPORT

SAMPLE	As
32124	560
32125	135
32126	64
32127	50
32128	90
32129	130
32130	140
32131	135
32132	88
32133	185
32134	92
32135	145
32136	76
32137	28
32138	13
32139	19
32140	20
32141	70
32142	30
32143	19
32144	26
32145	1080
32146	94
32302	2.00%
32303	5600
UNITS	ppm
SCHEME	XRF1
UPPER SCHEME	XRF2



Job: 9AD1107

O/N: 9DN0786

ANALYTICAL REPORT

SAMPLE	As
32304	7000
32305	3700
32306	3500
32307	1820
32308	2600
32309	1920
32310	1280
32311	1880
32312	1900
32313	1900
32314	1980
32315	1360
32316	930
32317	970
32318	870
32319	820
32320	930
32321	900
32322	940
32323	910
32324	1100
32325	840
32326	340
32327	180
32328	50
UNITS SCHEME	ppm XRF1



Job: 9AD1107

O/N: 9DN0786

ANALYTICAL REPORT

SAMPLE	As
32329	72
32330	34
32331	26
32332	13
32333	22
32334	34
32335	54
32336	58
32337	50
32338	84
32339	74
32340	74
32341	64
32342	770
20582	135
20583	30
20584	24
20585	15
20586	30
20587	25
20588	I.S.
20589	19
20590	28
UNITS	ppm
SCHEME	XRF1

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ANALYSIS

SAMPLE MARK	As ppm
32076	78
32077	10
32083	1240
32084	78

Note:

A mix up in sample numbers has occurred. It appears that sample numbers 32076 and 32077 were crossed and similarly 32083 and 32084 crossed. This was confirmed when preliminary Au, Cu, Pb, and Zn were similarly crossed.

METHOD : XRF1 Amended Results

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Analytical Laboratories (INC. IN WA.)

Analysis code AAS7
AAS1

Report 9DN0813

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Order No. 2918

Results in ppm

Sample	Au	Cu	Pb	Zn
32202	0.14	2620	460	54
32203	0.08	4200	76	135
32204	0.10	4940	38	130
32205	0.05	5150	66	240
32206	0.04	3200	215	180
32207	0.20	8600	330	150
32208	0.30	8650	66	67
32209	0.07	8350	30	135
32210	0.06	3240	13	120
32211	0.05	2420	10	175
32212	0.03	2340	7	165
32213	0.05	2520	12	190
32214	0.03	820	9	215
32215	<0.01	320	10	150
32216	<0.01	130	7	140
32217	<0.01	330	6	89
32218	<0.01	405	7	88
32219	<0.01	280	7	180
32220	<0.01	200	7	135
32221	<0.01	175	<5	110
32222	<0.01	630	21	130
32223	<0.01	175	17	120
32224	0.03	110	14	100
32225	<0.01	105	14	115
32226	0.02	87	15	125
32227	<0.01	100	18	115
32228	0.01	130	15	110
32229	<0.01	115	23	91
32230	<0.01	89	10	87
32231	0.05	94	8	71
32232	0.02	68	6	89
32233	0.07	110	6	81
32234	<0.01	135	13	110
32235	<0.01	93	7	90
32236	<0.01	70	9	125
32237	<0.01	105	6	100
32238	<0.01	130	8	145
32239	0.82	4500	87	215
32240	<0.01	1200	40	150
32241	0.05	3700	36	205

Detn limit

(0.01) (2) [(5) (2)

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Analytical Laboratories (INC. IN WA.)

Analysis code AAS7
AAS1

Report 9DN0813

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Order No. 2918

Results in ppm

Sample		Au	Cu	Pb	Zn
32242		0.04	2800	36	165
32243		<0.01	1340	29	145
32244		<0.01	990	34	170
32245		<0.01	450	33	170
32246		<0.01	290	23	155
32247		<0.01	245	17	140
32248		<0.01	180	18	115
32249		<0.01	190	14	120
32250		<0.01	140	<5	99
32251		<0.01	255	6	97
32252		<0.01	210	20	110
32253	<0.01	<0.01	120	45	380
32254		<0.01	140	21	115
32255		<0.01	105	12	125
32256		<0.01	230	11	120
32257		<0.01	265	21	185
32258		<0.01	155	17	130
32259		<0.01	115	9	95
32260		<0.01	230	14	115
32261		<0.01	145	16	110
32262	<0.01	<0.01	185	20	130
32263		<0.01	155	8	125
32264		<0.01	190	6	110
32265		<0.01	420	7	130
32266		<0.01	405	10	115
32267		<0.01	660	12	91
32268		<0.01	410	20	90
32269		<0.01	480	11	77
32270		<0.01	470	9	63
32271		<0.01	465	10	91
32272		<0.01	235	15	100
32273		<0.01	180	8	96
32274		<0.01	140	31	120
32275		<0.01	230	26	140
32276		<0.01	250	16	120
32277		<0.01	200	12	125
32278		<0.01	280	14	115
32279		<0.01	740	14	105
32280		<0.01	1340	26	92
32281		<0.01	1380	27	88
Detn limit		(0.01)	(2)	(5)	(2)

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Analysis code AAS7
AAS1

Report 9DN0813

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Order No. 2918

Results in ppm

Sample		Au	Cu	Pb	Zn
32282		<0.01	220	9	100
32283	<0.01	<0.01	175	<5	100
32284		<0.01	165	26	130
32402		<0.01	2740	200	54
32403		Listed Not Received			
32404		<0.01	2520	28	68
32405		<0.01	1820	36	44
32406		<0.01	2160	24	68
32407		<0.01	2060	20	69
32408		<0.01	4740	19	105
32409		0.02	1680	46	54
32410		<0.01	5000	64	50
32411		<0.01	1.28%	78	77
32412		<0.01	1.28%	19	105
32413		<0.01	5400	13	130
32414		<0.01	3600	15	100
32415		<0.01	1020	7	125
32416		<0.01	485	7	135
32417		<0.01	245	7	120
32418		<0.01	205	<5	120
32419		<0.01	230	<5	120
32420		<0.01	405	18	120
32421		<0.01	170	7	105
32422		<0.01	150	<5	110
32423		<0.01	200	6	105
32424	<0.01	<0.01	140	6	85
32425		<0.01	150	<5	110
32426		<0.01	240	9	86
32427		<0.01	265	6	77
32428		<0.01	240	<5	75
32429		<0.01	255	6	98
32430		<0.01	185	<5	125
32431		<0.01	220	<5	97
32432		<0.01	165	<5	99
32433		<0.01	510	<5	100
32434		<0.01	910	<5	66
32435		<0.01	2000	6	79
32436		<0.01	1900	7	81
32437		<0.01	1300	12	83
32438		<0.01	1080	6	85
Detn limit		(0.01)	(2)	(5)	(2)

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Analysis code AAS7
AAS1

Report 9DN0813

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Order No. 2918

Results in ppm

Sample		Au	Cu	Pb	Zn
32439		<0.01	220	11	84
32440		<0.01	215	<5	98
32441	<0.01	<0.01	760	<5	79
32442		<0.01	840	<5	76
32443		<0.01	1540	<5	60
32444		<0.01	5650	7	64
32445		<0.01	5600	9	72
32446		<0.01	5200	17	66
32447		<0.01	870	7	110
32448		<0.01	740	8	110
32449		<0.01	1380	8	89
32450		<0.01	530	6	87
32451		<0.01	930	9	91
32452		<0.01	1240	10	80
32453	<0.01	<0.01	670	8	75
32454		<0.01	470	<5	86
32455		<0.01	520	6	81
32456		<0.01	1060	6	89
32457		<0.01	360	<5	82
32458		<0.01	380	6	91
32459		<0.01	330	8	92
32460		<0.01	250	<5	95
32461		<0.01	175	<5	98
32462		<0.01	220	9	95
32463		<0.01	260	6	89
32464		<0.01	870	7	74
32465		<0.01	480	9	79
32466		<0.01	220	6	73
32467		<0.01	160	<5	82
32468	<0.01	<0.01	520	6	72
32469		<0.01	385	11	53
32470		<0.01	330	7	63
32471		<0.01	290	7	60
32472		0.06	5350	59	55
32473		<0.01	660	28	105
32474		<0.01	320	6	130
32475		<0.01	1860	6	82
32476		<0.01	420	6	89
32477		<0.01	315	<5	93
32503		0.06	4140	200	69
Detn limit		(0.01)	(2)	(5)	(2)

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Analysis code AAS7
AAS1

Report 9DN0813

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Order No. 2918

Results in ppm

Sample	Au	Cu	Pb	Zn
32504	0.04	4280	84	63
32505	0.14	3860	77	44
32506	<0.01	1.08%	13	73
32507	<0.01	7800	9	76
32508	<0.01	7900	7	81
32509	<0.01	7100	9	90
32510	<0.01	2080	7	95
32511	0.04	1840	13	110
32512	<0.01	1500	9	135
32513	<0.01	790	7	115
32514	0.03	900	8	130
32515	<0.01	1280	17	120
32516	<0.01	2300	140	82
32517	<0.01	2160	375	100
32518	<0.01	370	120	81
32519	<0.01	245	17	87
32520	<0.01	150	19	110
32521	<0.01	275	12	110
32522	<0.01	195	8	100
32523	<0.01	205	10	105
32524	<0.01	190	<5	105
32525	<0.01	1600	43	100
32526	<0.01	1820	27	76
32527	<0.01	1320	10	85
32528	<0.01	740	<5	75
32529	<0.01	680	<5	76
32530	<0.01	830	<5	94
32531	<0.01	190	<5	94
32532	<0.01	4460	10	100
32533	<0.01	5050	11	110
32534	<0.01	7300	9	94
32535	<0.01	5400	16	85
32536	<0.01	7100	19	110
32537	<0.01	1480	16	125
32538	<0.01	1560	21	85
Detn limit	(0.01)	(2)	(5)	(2)



Job: 9AD1117

O/N: 9DN0813

ANALYTICAL REPORT

SAMPLE	As
32202	6000
32203	1700
32204	790
32205	610
32206	1500
32207	3100
32208	4300
32209	1950
32210	2100
32211	1720
32212	1680
32213	1660
32214	940
32215	960
32216	790
32217	910
32218	700
32219	800
32220	360
32221	260
32222	810
32223	320
32224	290
32225	125
32226	155
UNITS	ppm
SCHEME	XRF1



Job: 9AD1117

O/N: 9DN0813

ANALYTICAL REPORT

SAMPLE	As
32227	115
32228	70
32229	115
32230	34
32231	82
32232	370
32233	185
32234	55
32235	84
32236	25
32237	46
32238	15
32239	38
32240	24
32241	58
32242	56
32243	22
32244	94
32245	74
32246	30
32247	28
32248	24
32249	25
32250	22
32251	28
UNITS	ppm
SCHEME	XRF1



Job: 9AD1117

O/N: 9DN0813

ANALYTICAL REPORT

SAMPLE	As
32252	65
32253	11
32254	17
32255	7
32256	38
32257	42
32258	15
32259	8
32260	5
32261	30
32262	26
32263	36
32264	22
32265	15
32266	38
32267	105
32268	86
32269	45
32270	14
32271	32
32272	30
32273	19
32274	14
32275	32
32276	46
UNITS	ppm
SCHEME	XRF1



Job: 9AD1117

O/N: 9DN0813

ANALYTICAL REPORT

SAMPLE	As
32277	58
32278	96
32279	76
32280	95
32281	80
32282	42
32283	26
32284	15
32402	2450
32403	I.S.
32404	840
32405	980
32406	970
32407	910
32408	900
32409	630
32410	1750
32411	3800
32412	700
32413	690
32414	720
32415	560
32416	560
32417	450
32418	490
UNITS	ppm
SCHEME	XRF1



Job: 9AD1117

O/N: 9DN0813

ANALYTICAL REPORT

SAMPLE	As
32419	510
32420	650
32421	480
32422	520
32423	510
32424	75
32425	44
32426	68
32427	56
32428	56
32429	62
32430	70
32431	40
32432	26
32433	26
32434	22
32435	30
32436	44
32437	165
32438	40
32439	24
32440	22
32441	32
32442	24
32443	20
UNITS	ppm
SCHEME	XRF1



Job: 9AD1117

O/N: 9DN0813

ANALYTICAL REPORT

SAMPLE	As
32444	26
32445	30
32446	17
32447	8
32448	10
32449	22
32450	25
32451	32
32452	40
32453	19
32454	12
32455	8
32456	22
32457	18
32458	22
32459	28
32460	14
32461	14
32462	28
32463	42
32464	15
32465	26
32466	6
32467	8
32468	11
UNITS	ppm
SCHEME	XRF1



Job: 9AD1117

O/N: 9DN0813

ANALYTICAL REPORT

SAMPLE	As
32469	12
32470	10
32471	12
32472	1700
32473	660
32474	96
32475	52
32476	32
32477	18
32503	1600
32504	1320
32505	3400
32506	2100
32507	2000
32508	1940
32509	1800
32510	1200
32511	1100
32512	1220
32513	1060
32514	1000
32515	1120
32516	2100
32517	1150
32518	470
UNITS SCHEME	ppm XRF1



Job: 9AD1117

O/N: 9DN0813

ANALYTICAL REPORT

SAMPLE	As
32519	290
32520	I.S.
32521	250
32522	350
32523	300
32524	280
32525	350
32526	200
32527	200
32528	68
32529	74
32530	48
32531	25
32532	48
32533	80
32534	68
32535	200
32536	210
32537	1040
32538	185
UNITS	ppm
SCHEME	XRF1

APPENDIX IV

Assay Data Sheets

Copperflower
RC Drilling

1989

Analysis code AAS8
AAS1

Report 9DN0840

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Order No. 2911

Results in ppm

Sample		Au	Cu	Pb	Zn
32702	<0.01	0.06	4500	970	1700
32703		<0.01	4980	72	2660
32704		<0.01	4400	39	2140
32705		<0.01	4820	21	2700
32706		<0.01	4880	22	1720
32707		0.05	4780	38	1440
32708		<0.01	4720	42	1460
32709		0.10	4560	44	1260
32710		0.14	4220	42	1020
32711		0.08	4960	49	1140
32712		0.06	5850	28	1160
32713		0.10	6050	20	1260
32714		0.14	5250	14	1260
32715		0.06	1940	10	850
32716		0.06	2100	17	1080
32717		0.05	1740	20	1160
32718		0.09	1720	30	1700
32719		0.08	1860	15	2020
32720		0.07	2280	15	2280
32721		0.16	2720	21	1560
32722		0.16	2840	24	1640
32723		0.18	3060	24	1280
32724		0.20	2500	19	1320
32725		0.28	3840	29	1480
32726		0.84	350	43	1160
32727	1.65	1.65	7850	100	1140
32728	1.80	1.60	1640	35	990
32729	2.40	1.90	2400	43	990
32730	0.93	0.88	2280	32	1260
32731	1.46	1.45	2460	20	800
32732	2.70	2.75	2580	20	510
32733		0.40	390	6	125
32734		0.54	620	9	205
32735		0.28	345	16	120
32736		0.24	325	14	110
32737		0.12	2400	11	1000
32738		0.24	3600	23	1380
32802		0.20	7350	240	940
32803		0.14	5150	125	1260
32804		0.04	2340	48	1280
Detn limit		(0.01)	(2)	(5)	(2)

Analysis code AAS8
AAS1

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Order No. 2911

Results in ppm

Sample		Au	Cu	Pb	Zn
32805		0.18	8350	100	3260
32806		0.20	8900	94	1380
32807		<0.01	1.00%	26	850
32808		0.04	2.92%	26	510
32809		0.68	5.60%	63	415
32810	0.95	0.62	5.10%	69	435
32811		0.10	2.92%	235	445
32812		0.24	1.62%	115	550
32813		0.18	1.66%	34	1700
32814		0.14	1.39%	37	820
32815		0.10	1.40%	41	4720
32816		0.06	1.26%	105	3960
32817		0.04	3740	44	1660
32818	<0.01	0.04	6250	43	1580
32819		<0.01	2180	11	1480
32820		<0.01	2500	11	1300
32821		<0.01	1520	6	1220
32822		<0.01	1820	10	1900
32823		<0.01	740	8	440
32824		<0.01	300	7	150
32825		<0.01	280	9	71
32826		<0.01	380	8	86
32827		<0.01	270	10	82
32828		<0.01	345	13	105
32829		<0.01	400	9	92
32830		<0.01	145	6	59
32831		<0.01	155	6	54
32832	<0.01	<0.01	125	8	52
32833		<0.01	200	8	63
32834		<0.01	230	10	94
32835		<0.01	315	18	100
32836		<0.01	305	15	80
32837		<0.01	350	10	86
32838		<0.01	230	<5	59
32839		<0.01	275	6	64
32840		<0.01	170	<5	54
32841		<0.01	150	<5	55
32842		<0.01	200	<5	36
32843		<0.01	285	<5	41
32844		<0.01	245	<5	49
Detn limit		(0.01)	(2)	(5)	(2)

Analysis code AAS8
AAS1

Report 9DN0840

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Order No. 2911

Results in ppm

Sample		Au	Cu	Pb	Zn
32845		<0.01	125	<5	41
32846		<0.01	165	<5	46
32847		<0.01	385	<5	42
32848		<0.01	230	<5	54
32849		<0.01	290	10	58
32850		<0.01	365	12	70
32851		<0.01	365	11	65
32852		<0.01	245	10	54
32853		<0.01	295	11	60
32854	<0.01	<0.01	300	12	55
32855		<0.01	295	13	56
32856		<0.01	325	11	57
32857		<0.01	370	11	56
32858		<0.01	255	7	53
32859		<0.01	330	<5	110
32860		<0.01	31	<5	42
32861		<0.01	180	<5	62
32862		<0.01	100	<5	42
32863		<0.01	125	<5	37
32864		<0.01	130	6	40
32865		<0.01	135	7	48
32866		<0.01	77	<5	39
32867	<0.01	<0.01	230	<5	40
32868		<0.01	125	<5	36
32869		<0.01	200	<5	39
32870		<0.01	170	11	59
32871		<0.01	145	6	46
32872		<0.01	94	7	38
32873		<0.01	79	<5	38
32874		<0.01	96	<5	36
32875		<0.01	130	<5	44
32876		<0.01	140	<5	38
32877		<0.01	160	<5	42
32878		<0.01	160	<5	46
32879		<0.01	140	7	49
32880	<0.01	<0.01	150	10	51
32881		<0.01	150	7	42
32882	<0.01	<0.01	165	7	44
32883		<0.01	120	<5	36
32884		<0.01	110	6	31
Detn limit		(0.01)	(2)	(5)	(2)

Analysis code AAS8
AAS1

Report 9DN0840

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Order No. 2911

Results in ppm

Sample	Au		Cu	Pb	Zn
32885		<0.01	185	80	155
32886	<0.01	0.10	145	11	51
32887	0.70	0.56	4.85%	79	470
32888		<0.01	2740	18	1900
32889		<0.01	240	6	60
32890		<0.01	205	<5	63
32891		<0.01	410	17	77
32892		<0.01	57	<5	41
32893	<0.01	<0.01	125	11	50
32902	1.72	1.65	7000	530	1240
32903	2.00	2.15	1.18%	540	1460
32904	4.20	3.80	1.06%	405	1140
32905	3.10	2.90	9850	630	900
32906	2.50	2.55	1.24%	1180	465
32907	3.05	3.05	1240	2440	520
32908	2.25	2.05	9300	1720	790
32909	2.15	2.20	9700	1280	2600
32910	0.72	0.82	3.14%	660	1420
32911		0.74	4400	630	1900
32912		0.46	3.82%	495	1320
32913	1.30	1.50	2.14%	185	1180
32914		0.32	1.31%	125	1340
32915		0.26	1.08%	90	1480
32916		0.80	1.41%	790	1340
32917		0.98	8700	425	1060
32918		0.64	1.13%	68	530
32919		0.09	1560	105	220
32920		<0.01	670	38	98
32921		<0.01	465	32	96
32922		<0.01	290	26	84
32923		<0.01	295	37	135
32924		<0.01	500	54	115
32925		<0.01	465	43	100
32926		<0.01	360	38	88
32927	<0.01	<0.01	185	30	99
32928		<0.01	170	14	64
32929		<0.01	175	9	64
32930		<0.01	195	8	70
32931		<0.01	160	8	69
32932	0.50	0.48	3.26%	590	1280
Detn limit		(0.01)	(2)	(5)	(2)

Analysis code AAS8
AAS1

Report 9DN0840

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Order No. 2911

Results in ppm

Sample	Au	Cu	Pb	Zn
32933	0.03	1000	48	115
32934	<0.01	350	24	91
32935	<0.01	240	24	67
32936	<0.01	145	14	56
32937	<0.01	190	17	57
32938	<0.01	180	12	55
32939	<0.01	420	44	99
33002	<0.01	560	165	185
33003	<0.01	350	72	330
33004	<0.01	285	17	1200
33005	<0.01	2280	16	1860
33006	0.04	1.14%	16	2560
33007	0.06	1.91%	17	4020
33008	<0.01	1.48%	12	1560
33009	<0.01	7150	12	1400
33010	<0.01	2860	10	1300
33011	<0.01	1020	7	820
33012	<0.01	600	12	340
33013	<0.01	355	<5	255
33014	<0.01	230	<5	115
33015	<0.01	180	<5	120
33016	<0.01	145	<5	105
33017	<0.01	145	<5	79
33018	<0.01	24	<5	41
33019	<0.01	135	<5	85
33020	<0.01	160	<5	89
33021	<0.01	77	<5	110
33022	<0.01	260	6	92
33023	<0.01	40	<5	42
33024	<0.01	145	<5	89
33025	<0.01	95	7	84
33026	<0.01	170	<5	96
33027	<0.01	92	8	66
33028	<0.01	115	8	57
33029	<0.01	125	<5	44
33030	<0.01	105	<5	50
33031	<0.01	130	<5	63
33032	<0.01	2120	6	1140
33033	<0.01	170	<5	96
Detn limit	(0.01)	(2)	(5)	(2)

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Job: 9AD1148

O/N: 9DN0840

ANALYTICAL REPORT

SAMPLE	As
32702	360
32703	135
32704	130
32705	74
32706	36
32707	28
32708	38
32709	28
32710	24
32711	30
32712	20
32713	22
32714	28
32715	28
32716	26
32717	20
32718	22
32719	25
32720	26
32721	25
32722	26
32723	32
32724	38
32725	56
32726	130
UNITS	ppm
SCHEME	XRF1



ANALYTICAL REPORT

SAMPLE	As
32727	310
32728	90
32729	68
32730	62
32731	66
32732	38
32733	20
32734	34
32735	16
32736	22
32737	24
32738	48
32802	260
32803	230
32804	210
32805	240
32806	420
32807	195
32808	260
32809	350
32810	260
32811	210
32812	230
32813	260
32814	410
UNITS	ppm
SCHEME	XRF1



Job: 9AD1148
O/N: 9DN0840

ANALYTICAL REPORT

SAMPLE	As
32815	180
32816	52
32817	42
32818	65
32819	58
32820	36
32821	40
32822	40
32823	42
32824	30
32825	28
32826	16
32827	20
32828	22
32829	20
32830	18
32831	18
32832	25
32833	30
32834	26
32835	26
32836	14
32837	9
32838	22
32839	20
UNITS	ppm
SCHEME	XRF1



ANALYTICAL REPORT

SAMPLE	As
32840	14
32841	18
32842	24
32843	26
32844	30
32845	28
32846	24
32847	22
32848	20
32849	25
32850	28
32851	44
32852	38
32853	32
32854	28
32855	24
32856	25
32857	19
32858	20
32859	22
32860	14
32861	19
32862	10
32863	9
32864	15
UNITS	ppm
SCHEME	XRF1



ANALYTICAL REPORT

SAMPLE	As
32865	18
32866	38
32867	26
32868	22
32869	18
32870	16
32871	18
32872	19
32873	7
32874	9
32875	14
32876	14
32877	16
32878	13
32879	14
32880	30
32881	30
32882	17
32883	15
32884	17
32885	17
32886	26
32887	270
32888	48
32889	24
UNITS	ppm
SCHEME	XRF1



Job: 9AD1148

O/N: 9DN0840

ANALYTICAL REPORT

SAMPLE	As
32890	17
32891	30
32892	15
32893	20
32902	460
32903	620
32904	800
32905	750
32906	3000
32907	2400
32908	1160
32909	1150
32910	350
32911	340
32912	220
32913	105
32914	55
32915	44
32916	610
32917	570
32918	310
32919	72
32920	25
32921	24
32922	15
UNITS	ppm
SCHEME	XRF1

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Job: 9AD1148

O/N: 9DN0840

ANALYTICAL REPORT

SAMPLE	As
32923	22
32924	46
32925	24
32926	35
32927	22
32928	16
32929	13
32930	9
32931	14
32932	300
32933	32
32934	18
32935	26
32936	20
32937	25
32938	24
32939	45
33002	94
33003	54
33004	34
33005	98
33006	44
33007	115
33008	92
33009	55
UNITS	ppm
SCHEME	XRF1



Job: 9AD1148

O/N: 9DN0840

ANALYTICAL REPORT

SAMPLE	As
33010	26
33011	22
33012	20
33013	32
33014	30
33015	25
33016	22
33017	20
33018	17
33019	14
33020	12
33021	22
33022	18
33023	10
33024	22
33025	28
33026	18
33027	13
33028	11
33029	15
33030	14
33031	8
33032	28
33033	13
UNITS	ppm
SCHEME	XRF1

Analysis code AAS8
AAS1

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Order No. 2912

Results in ppm

Sample		Au	Cu	Pb	Zn
32602		0.06	500	54	89
32603		0.34	870	26	270
32604		0.42	870	22	230
32605		0.74	1500	20	450
32606		0.24	760	17	185
32607		0.16	590	18	175
32608		0.18	1260	34	200
32609		0.18	2080	68	185
32610		0.12	560	40	200
32611		0.16	225	29	125
32612		0.08	170	26	400
32613		0.09	1140	23	1920
32614		0.74	5250	36	3060
32615	2.35	2.25	6550	165	2400
32616	1.60	1.60	5050	470	1800
32617		0.58	4300	210	1640
32618	0.42	0.44	3640	79	2820
32619		0.48	2820	58	1820
32620		0.66	3180	145	1200
32621		0.34	4160	69	1100
32622		0.18	4220	31	820
32623		0.24	4520	31	680
32624		0.78	2660	23	870
32625		0.28	2980	50	860
32626		0.10	415	16	165
32627		0.30	255	16	86
32628		0.04	160	12	68
32629		0.08	140	10	59
32630		0.12	180	9	97
32631		0.48	3.75%	205	205
32632	3.30	2.85	1.45%	180	1120
32633	4.40	4.15	1.95%	91	1560
32634	7.20	6.00	1.35%	51	760
32635	4.30	4.00	6450	43	560
32636	3.20	2.65	9000	60	520
32637	3.50	2.55	7900	63	445
32638	6.15	6.50	3580	40	2840
32639	5.85	4.85	3120	70	840
32640	3.05	3.05	1660	39	375
32641	1.80	2.50	1340	33	315
Detn limit		(0.01)	(2)	(5)	(2)

Analysis code AAS8
AAS1

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Order No. 2912

Results in ppm

Sample		Au	Cu	Pb	Zn
32642	1.30	1.45	1200	34	325
32643		1.15	1100	26	340
32644		0.38	375	8	150
32645		0.10	61	14	48
32646		0.10	195	14	62
32647		0.06	170	6	51
32648		0.12	230	17	93
32649		0.16	270	16	125
32650		0.08	225	10	115
32651		0.12	345	14	200
32652		0.14	520	10	170
32653		0.12	380	9	140
32654	0.08	0.05	330	8	120
32655		0.14	610	8	155
32656		0.26	1520	12	180
32657		0.32	2260	14	235
32658		0.28	1740	16	250
32659		0.40	1660	25	280
32660		0.22	1160	16	250
32661		0.10	500	11	115
32662		0.07	275	11	105
32663	0.06	0.04	315	11	125
32664		0.03	270	10	100
32665		0.36	1220	10	325
32666		0.07	255	15	225
32667		0.05	180	45	140
32668		0.02	120	27	81
32669		0.01	145	11	100
32670		0.07	195	13	100
32671		0.03	170	12	97
32672		0.03	475	32	185
32673		0.74	3560	135	3100
32674		0.24	200	10	115
32675	2.50	2.65	1700	37	350
32676		0.12	320	12	130
32677		0.18	980	30	215
33102		0.22	1240	235	360
33103		0.14	910	160	385
33104	0.09	0.14	365	52	295
33105		0.03	210	29	205
Detn limit		(0.01)	(2)	(5)	(2)

Analysis code AAS8
AAS1

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Order No. 2912

Results in ppm

Sample		Au	Cu	Pb	Zn
33106		0.14	330	44	375
33107		0.20	260	16	395
33108		0.06	810	19	1040
33109		0.04	880	7	1260
33110		0.08	600	10	900
33111		0.05	270	9	445
33112		0.10	490	6	590
33113		0.06	295	11	340
33114		0.04	200	28	230
33115		0.07	340	20	345
33116		0.08	495	9	510
33117		0.06	380	10	455
33118		0.10	365	15	460
33119		0.03	280	7	350
33120		0.03	1040	<5	1320
33121		0.06	1160	7	1040
33122		0.04	510	18	280
33123		0.05	250	19	150
33124	<0.01	0.02	86	7	88
33125		0.02	205	14	510
33126		<0.01	170	14	185
33127		0.01	250	36	270
33128		0.09	2380	60	300
33129	2.20	1.85	1.45%	70	375
33130		0.22	2580	180	500
33131		<0.01	285	29	170
33132		<0.01	120	11	80
33133		<0.01	93	6	125
33134		0.04	125	<5	77
33135		0.02	110	<5	76
33136		<0.01	135	<5	140
33137		<0.01	130	<5	77
33138		0.03	140	<5	95
33139		<0.01	74	<5	90
33140	<0.01	<0.01	98	12	83
33141		<0.01	140	8	115
33142		0.02	165	<5	175
33143		<0.01	630	12	550
33144		0.02	330	11	225
33145		<0.01	210	13	145
Detn limit		(0.01)	(2)	(5)	(2)

Analysis code AAS8
AAS1

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Order No. 2912

Results in ppm

Sample		Au	Cu	Pb	Zn
33146		<0.01	290	15	160
33147		0.02	210	15	165
33148		<0.01	485	11	120
33149		<0.01	210	12	140
33150		<0.01	180	14	52
33151		<0.01	1420	425	235
33152		0.05	305	100	125
33153		0.02	200	47	61
33154		<0.01	260	46	125
33155		0.03	630	78	95
33156		<0.01	125	63	73
33157		<0.01	980	2780	1500
33158		0.07	960	495	465
33159		<0.01	230	81	155
33160		<0.01	150	34	82
33161		<0.01	265	90	105
33162		<0.01	220	165	210
33163		0.03	305	99	180
33164		<0.01	250	84	160
33165	<0.01	<0.01	210	79	140
33166		<0.01	210	84	195
33167		<0.01	195	42	91
33168		<0.01	155	61	120
33169		<0.01	185	25	94
33170		<0.01	180	51	115
33171		<0.01	190	53	125
33172		<0.01	305	57	130
33173		<0.01	205	42	135
33174		<0.01	215	73	105
33175		<0.01	195	44	165
33176		0.03	140	13	105
33177		<0.01	630	8	560
33178		0.02	820	6	880
33179		0.28	2200	200	640
33180		<0.01	99	27	73
33181		0.03	350	39	120
33182		<0.01	200	31	97
33202	0.23	0.28	2060	600	830
33203		0.12	1980	66	2300
33204		0.16	1660	62	2080
Detn limit		(0.01)	(2)	(5)	(2)

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Analysis code AAS8
AAS1

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Order No. 2912

Results in ppm

Sample		Au	Cu	Pb	Zn
33205		0.14	1800	49	1960
33206		0.09	1540	42	210
33207		0.05	1240	27	1400
33208		0.02	1400	19	1520
33209		0.03	1360	33	1540
33210		<0.01	990	38	1340
33211		<0.01	1220	32	1560
33213		<0.01	2400	29	1620
33214		0.04	6400	31	2140
33215		0.14	3860	97	1180
33216		0.08	2320	115	1560
33217		0.02	2360	155	2480
33218		0.08	3820	630	2340
33219		0.04	4260	275	870
33220	1.50	2.50	8450	465	3500
33221		0.62	6050	610	1680
33222	2.85	2.55	6400	1140	1660
33223		0.48	9350	660	930
33224		0.84	1.41%	620	4180
33225	1.60	1.55	7100	165	3360
33226	1.90	1.75	6750	1940	4480
33227	3.50	2.95	2.10%	485	4700
33228	4.00	3.75	3.83%	125	2300
33229	1.90	1.75	1.81%	170	2140
33230		0.58	3860	170	1060
33231	1.35	1.30	1.51%	195	2480
33232	1.75	1.80	6350	140	1200
33233		0.36	3040	720	2540
33234	0.20	0.32	1680	170	1400
33235		0.14	2220	105	900
33236		0.12	2000	110	870
33237		0.09	1880	140	920
33238		0.14	2560	230	1360
33239		0.05	1020	160	1900
33240		<0.01	1020	110	2360
33241		0.04	1060	130	2220
33242		<0.01	760	46	1280
33243	1.25	1.10	9150	435	3300
33244	0.50	0.38	3660	200	1280

Detn limit

(0.01)

(2)

(5)

(2)

ANALYSIS

SAMPLE MARK	Au ppm
32638	6.00
32639	4.45
32640	3.55
32641	1.75
32642	2.10
32643	1.00
32644	0.25
32645	0.10

METHOD : AAS8 Re-Assay on new split from bulk.



Job: 9AD1149

O/N: 9DN0841

ANALYTICAL REPORT

SAMPLE	As
32602	70
32603	28
32604	42
32605	42
32606	22
32607	22
32608	30
32609	160
32610	9
32611	12
32612	8
32613	13
32614	98
32615	630
32616	440
32617	200
32618	100
32619	82
32620	165
32621	94
32622	34
32623	30
32624	45
32625	72
32626	52
UNITS	ppm
SCHEME	XRF1

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Job: 9AD1149

O/N: 9DN0841

ANALYTICAL REPORT

SAMPLE	As
32627	38
32628	26
32629	26
32630	68
32631	1380
32632	480
32633	340
32634	260
32635	145
32636	135
32637	190
32638	80
32639	105
32640	80
32641	38
32642	48
32643	56
32644	26
32645	10
32646	14
32647	17
32648	75
32649	26
32650	22
32651	24
UNITS	ppm
SCHEME	XRF1



Job: 9AD1149

O/N: 9DN0841

ANALYTICAL REPORT

SAMPLE	As
32652	18
32653	17
32654	16
32655	28
32656	50
32657	65
32658	44
32659	50
32660	36
32661	17
32662	16
32663	20
32664	15
32665	42
32666	9
32667	16
32668	34
32669	13
32670	20
32671	12
32672	9
32673	135
32674	70
32675	76
32676	18
UNITS	ppm
SCHEME	XRF1



Job: 9AD1149

O/N: 9DN0841

ANALYTICAL REPORT

SAMPLE	As
32677	22
33102	230
33103	160
33104	60
33105	70
33106	62
33107	54
33108	140
33109	130
33110	105
33111	72
33112	92
33113	82
33114	56
33115	76
33116	110
33117	120
33118	115
33119	110
33120	155
33121	140
33122	98
33123	88
33124	80
33125	105
UNITS	ppm
SCHEME	XRF1



Job: 9AD1149

O/N: 9DN0841

ANALYTICAL REPORT

SAMPLE	As
33126	78
33127	75
33128	230
33129	240
33130	76
33131	24
33132	32
33133	28
33134	20
33135	24
33136	26
33137	30
33138	48
33139	36
33140	24
33141	32
33142	80
33143	115
33144	50
33145	40
33146	42
33147	40
33148	28
33149	32
33150	17

UNITS ppm
SCHEME XRF1

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Job: 9AD1149

O/N: 9DN0841

ANALYTICAL REPORT

SAMPLE	As
33151	120
33152	100
33153	42
33154	70
33155	34
33156	30
33157	50
33158	72
33159	54
33160	26
33161	50
33162	200
33163	65
33164	66
33165	50
33166	56
33167	40
33168	64
33169	36
33170	82
33171	58
33172	64
33173	48
33174	48
33175	42
UNITS	ppm
SCHEME	XRF1



Job: 9AD1149

O/N: 9DN0841

ANALYTICAL REPORT

SAMPLE	As
33176	88
33177	105
33178	125
33179	90
33180	26
33181	62
33182	38
33202	670
33203	105
33204	92
33205	85
33206	120
33207	125
33208	98
33209	120
33210	115
33211	92
33213	98
33214	135
33215	140
33216	145
33217	200
33218	330
33219	450
33220	5600
UNITS	ppm
SCHEME	XRF1

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Job: 9AD1149

O/N: 9DN0841

ANALYTICAL REPORT

SAMPLE	As
33221	1340
33222	1460
33223	630
33224	1880
33225	1020
33226	1020
33227	2300
33228	3200
33229	1000
33230	490
33231	910
33232	350
33233	330
33234	230
33235	250
33236	320
33237	210
33238	260
33239	115
33240	120
33241	110
33242	120
33243	5000
33244	500
UNITS	ppm
SCHEME	XRF1

Analysis code AAS7
AAS1

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Order No. D/S 2918

Results in ppm

Sample			Au	Cu
34003			<0.01	190
34004		<0.01	<0.01	88
34005			<0.01	78
34006			<0.01	73
34007			<0.01	84
34008			<0.01	110
34009			0.03	105
34010	0.05	0.04	1.15	72
34011			0.01	84
34012			0.02	75
34013			<0.01	88
34014			<0.01	140
34015			<0.01	235
34016			<0.01	415
34017			<0.01	455
34018			<0.01	225
34019			<0.01	180
34020			<0.01	83
34021			<0.01	94
34022			<0.01	57
34023			<0.01	97
34024			<0.01	100
34025			<0.01	160
34026			<0.01	110
34027			<0.01	89
34028			<0.01	88
34029			<0.01	86
34030			<0.01	88
34031			<0.01	105
34032			<0.01	94
34033			<0.01	41
34034			<0.01	31
34035		<0.01	<0.01	30
34036			<0.01	46
34037			<0.01	87
34038			<0.01	69
34039			<0.01	94
34040			<0.01	82
34041			<0.01	35
34042			<0.01	79
Detn limit			(0.01)	(2)

Analysis code AAS7
AAS1

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Order No. D/S 2918

Results in ppm

Sample	Au	Cu
34043	<0.01	83
34044	<0.01	94
34045	<0.01	7
34046	<0.01	9
34047	<0.01	95
34048	<0.01	390
34049	<0.01	120
34050	<0.01	130
34051	<0.01	56
34052	<0.01	210
34053	<0.01	26
34054	<0.01	17
34055	<0.01	81
34056	<0.01	42
34057	<0.01	92
34058	<0.01	235
34059	<0.01	62
34060	<0.01	10
34061	<0.01	15
34062	<0.01	520
34063	<0.01	260
34064	<0.01	105
34065	<0.01	70
34066	<0.01	84
34067	<0.01	74
34068	<0.01	58
34069	<0.01	58
34070	<0.01	43
34071	<0.01	2940
34072	<0.01	1.62%
34073	<0.01	540
34074	<0.01	205
34075	<0.01	880
34076	<0.01	365
34102	<0.01	195
34103	0.10	270
34104	0.06	550
34105	0.02	400
34106	<0.01	275
34107	<0.01	0.01

Detn limit

(0.01)

(2)

Analysis code AAS7
AAS1

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Order No. D/S 2918

Results in ppm

Sample	Au	Cu
34108	0.06	660
34109	0.09	445
34110	0.10	510
34111	0.03	230
34112	0.03	275
34113	<0.01	395
34114	<0.01	310
34115	<0.01	290
34116	<0.01	195
34117	<0.01	145
34118	<0.01	100
34119	<0.01	97
34120	<0.01	315
34121	<0.01	110
34122	<0.01	120
34123	<0.01	105
34124	<0.01	145
34125	<0.01	140
34126	<0.01	105
34127	<0.01	110
34128	<0.01	130
34129	<0.01	120
34130	<0.01	93
34131	<0.01	100
34132	<0.01	84
34133	<0.01	82
34134	<0.01	83
34135	<0.01	47
34136	<0.01	79
34137	<0.01	145
34138	<0.01	120
34139	<0.01	47
34140	<0.01	71
34141	<0.01	64
34142	<0.01	77
34143	<0.01	58
34144	<0.01	88
34145	<0.01	90
34146	<0.01	47
34147	<0.01	92
Detn limit	(0.01)	(2)

Analysis code AAS7
AAS1

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Order No. D/S 2918

Results in ppm

Sample	Au	Cu
34148	<0.01	85
34149	<0.01	80
34150	<0.01	120
34202	<0.01	190
34203	0.97 0.92	92
34204	<0.01	68
34205	<0.01	86
34206	<0.01	70
34207	<0.01	87
34208	<0.01	95
34209	<0.01	86
34210	<0.01	95
34211	<0.01 <0.01	83
34212	<0.01	75
34213	<0.01	83
34214	<0.01	99
34215	<0.01	93
34216	<0.01	74
34217	<0.01	68
34218	<0.01	84
34219	<0.01	90
34220	<0.01	41
34221	<0.01	69
34222	<0.01	74
34223	<0.01	75
34224	<0.01	68
34225	<0.01	550
34226	<0.01	2140
34227	0.06	6150
34228	<0.01	5850
34229	<0.01	1240
34230	<0.01 <0.01	405
34231	0.02	155
34232	0.01	105
34233	0.04	120
34234	0.04	88
34403	0.05	1700
34404	0.01	1400
34405	0.64	4520
34406	0.68	4240
Detn limit	(0.01)	(2)

Analysis code AAS7
AAS1

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Order No. D/S 2918

Results in ppm

Sample		Au	Cu
34407	0.90	1.00	6600
34408	1.55	1.60	9050
34409		0.76	1.00%
34410		0.20	5150
34411		0.14	2580
34412		0.08	1460
34413		0.10	970
34414	3.00	2.80	7500
34415		0.28	8500
34416		0.16	6200
34417		0.07	2420
34418		0.04	1280
34419		0.06	550
34420	<0.01	<0.01	355
34421		<0.01	210
34422		<0.01	130
34423		<0.01	185
34424		<0.01	215
34425		0.78	3220
34426		0.20	540
34427		0.44	640
34428		0.46	330
34429	3.20	2.45	1940
34430	3.50	2.85	1600
34431		0.96	1780
34432		1.00	3000
34433	2.95	2.95	1.14%
34434	2.20	2.10	5400
34435	2.40	2.50	8650
34436		0.78	2040
34437		0.20	680
34438		0.18	730
34439		0.18	650
34440		0.36	1480
34441		0.09	380
34442		<0.01	240
34443	<0.01	<0.01	165
34444		<0.01	220
34445		<0.01	160
34446		<0.01	125

Detn limit

(0.01)

(2)

Analysis code AAS7
AAS1

Report 9DN1338

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Order No. D/S 2918

Results in ppm

Sample	Au	Cu
34447	<0.01	105
34448	<0.01	87
34449	0.09	295
34450	<0.01 0.06	115
Detn limit	(0.01)	(2)

Analysis code AAS7
AAS1

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Results in ppm

Sample		Au	Cu
35803		<0.01	67
35804		<0.01	100
35805		<0.01	92
35806		<0.01	78
35807		<0.01	51
35808		0.04	8
35809		<0.01	1360
35810		<0.01	250
35811		<0.01	285
35812		<0.01	86
35813		<0.01	54
35814		<0.01	61
35815		<0.01	62
35816		<0.01	72
35817		<0.01	67
35818	<0.01	<0.01	110
35819		<0.01	92
35820		<0.01	590
35821		0.84	1040
35822		0.02	63
35823		<0.01	27
35824		0.09	720
35825		0.04	385
35826		<0.01	250
35827		<0.01	190
35828	0.88	0.86	6450
35829		0.08	6200
35830		0.14	540
35831		0.16	660
35832		<0.01	125
35833		0.10	2460
35834	7.50 7.05	7.65	7000
35835		0.06	335
35836		<0.01	100
35837		<0.01	77
35838		<0.01	58
35839		<0.01	61
35840		0.02	1560
35841		<0.01	59
35842		0.01	45
35843	<0.01	0.04	93
Detn limit		(0.01)	(2)

Analysis code AAS8
AAS1

Report 9DN1508

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Order No. 2538

Results in ppm

Sample	Au	Cu
	Listed	Not Received
35002		
35003	0.32	6500
35004	0.05	5350
35005	0.10	4300
35006	0.12	4540
35007	0.07	4240
35008	0.08	8800
35009	0.14	3600
35010	0.18	3980
35011	0.10	5850
35012	0.04	4380
35013	0.18	4100
35014	0.24	2580
35015	0.18	1900
35016	0.29 0.22	1260
35017	0.30	1440
35018	0.16	1380
35019	0.10	1780
35020	0.12	1.17%
35021	0.06	4300
35022	0.18	8400
35023	0.07	1.67%
35024	0.08	9450
35025	0.40	1.10%
35026	0.24	1.33%
35027	0.16	9850
35028	0.04	1660
35029	0.03	940
35030	0.02	700
35102	0.20	1040
35103	0.10	1860
35104	0.06	2420
35105	0.09 0.12	4900
35106	0.06	8350
35107	0.06	9850
35108	0.08	9600
35109	0.05	1.39%
35110	0.09	1.26%
35111	0.10	1.89%
35112	0.10	1.55%
Detn limit	(0.01)	(2)

Analysis code AAS8
AAS1

Report 9DN1508

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Order No. 2538

Results in ppm

Sample			Au	Cu
35113			0.07	1.00%
35114			<0.01	9750
35115			<0.01	4160
35202			<0.01	780
35203			<0.01	3480
35204			<0.01	2000
35205			Listed	Not Received
35206			<0.01	3080
35207			<0.01	2660
35208			<0.01	3520
35209		0.17	0.17	1820
35210		<0.01	<0.01	580
35211			<0.01	1060
35212			<0.01	1120
35213			<0.01	1220
35214			<0.01	440
35215			<0.01	500
35216			<0.01	250
35217			<0.01	175
35218			<0.01	180
35219			<0.01	160
35220		<0.01	<0.01	185
35221			<0.01	180
35222			<0.01	175
35223			<0.01	255
35224			<0.01	415
35225			<0.01	220
35226			<0.01	170
35302			0.56	7750
35303			0.82	1.13%
35304			0.26	5150
35305			0.70	1.00%
35306	5.35	5.57	5.40	1.49%
35307	4.30	4.40	3.30	7500
35308			0.62	5350
35309			0.60	4860
35310			0.56	3500
35311			0.32	3340
35312			0.68	4140
35313			0.46	3300
Detn limit			(0.01)	(2)

Analysis code AAS8
AAS1

Report 9DN1508

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Order No. 2538

Results in ppm

Sample			Au	Cu
35314			2.15	2820
35315			0.46	2320
35316		0.31	0.38	1600
35317	6.70	6.65	10.4	2120
35318			0.90	1080
35319			0.34	1820
35320			0.70	970
35321			0.20	4420
35322			0.60	9750
35323	4.15	4.30	4.40	1.68%
35324	4.15	3.70	3.90	1820
35325		1.35	1.35	1920
35402			0.30	2260
35403			0.82	2940
35404			0.76	3020
35405			0.44	2900
35406			0.52	3780
35407			0.36	3640
35408			0.24	3780
35409			0.18	3600
35410			0.16	3220
35411			0.08	3100
35412			<0.01	2760
35413			0.18	1760
35414			<0.01	1400
35415			0.12	4200
35416			1.90	1.00%
35417			2.25	8500
35418			<0.01	6950
35419			0.26	1.35%
35420			<0.01	5000
35421			<0.01	8900
35422			<0.01	5000
35423			<0.01	2820
35424		<0.01	<0.01	1100
35425	9.08	10.2	10.3	810
35426	8.80	8.10	7.70	750
35427			2.45	1820
35428			0.86	1380
35429			0.28	4880
Detn limit			(0.01)	(2)

Analysis code AAS8
AAS1

Report 9DN1508

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Order No. 2538

Results in ppm

Sample		Au	Cu
35430		0.56	4380
35431		0.72	3980
35432	3.70 3.20	5.50	9600
35433		0.56	3220
35434		0.62	3300
35435		<0.01	1.95%
35436		<0.01	2.32%
35437		0.16	2.31%
35438		0.08	3680
35439		0.82	1.24%
35440		Listed	Not Received
35441		<0.01	2880
35442		0.28	2640
35443	<0.01	<0.01	1020
35444		<0.01	830
35445		<0.01	500
35502		<0.01	1340
35503		0.05	1260
35504		<0.01	600
35505		<0.01	475
35506		<0.01	280
35507		<0.01	240
35508		<0.01	570
35509		<0.01	470
35510		<0.01	660
35511		0.20	445
35512		<0.01	485
35513		<0.01	220
35514		0.06	475
35515		<0.01	1100
35516		1.35	4060
35517		0.20	1.15%
35518		0.12	9900
35519		1.05	1.02%
35520		1.10	1.25%
35521		Listed	Not Received
35522		0.40	8150
35523		Listed	Not Received
35524		0.40	4520
35525		0.30	7250
Detn limit		(0.01)	(2)

Analysis code AAS8
AAS1

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Order No. 2538

Results in ppm

Sample	Au		Cu
35526	0.40		8700
35527	0.07		4320
35528	0.05		2980
35529	<0.01		1060
35530	<0.01		920
35531	<0.01		510
35532	<0.01		440
35533	<0.01		770
35534	<0.01		640
35535	<0.01		520
35536	<0.01		620
35537	<0.01		910
35538	<0.01		210
35539	<0.01		125
35540	0.05		220
35541	4.30	4.45	4.20 990
35542	6.60	6.60	5.35 230
35543			0.92 1.58%
35544		1.30	1.30 2260
35545			0.68 2180
35546			1.05 1560
35547			0.08 2240
35548			0.32 1820
35549			1.65 890
35550			2.40 740
35551		0.75	0.72 460
35552			0.70 495
35553			0.52 3120
35554			0.08 1140
35555			0.02 850
35556			0.04 840
35557			<0.01 660
35558			<0.01 590
35559			<0.01 520
35560			<0.01 495
35561			<0.01 1440
35562			<0.01 620
35563			<0.01 560
35564			<0.01 800
35565			<0.01 245

Detn limit

(0.01)

(2)

Analysis code AAS8
AAS1

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Order No. 2538

Results in ppm

Sample		Au	Cu
35602		0.32	1580
35603		0.18	1080
35604		<0.01	890
35605		<0.01	690
35606		0.02	1300
35607		<0.01	770
35608		<0.01	620
35609		<0.01	730
35610		<0.01	540
35611		<0.01	1100
35612		<0.01	2600
35613		<0.01	2300
35614		<0.01	4060
35615	1.30	1.40	7500
35616		1.00	1.07%
35617		0.16	8250
35618		<0.01	6650
35619		0.22	9400
35620		0.08	5300
35702		0.08	1940
35703		0.10	2940
35704		0.09	4640
35705	0.13	0.20	8500
35706		<0.01	3920
35707		<0.01	2060
35708		<0.01	1380
35709		<0.01	2580
35710		<0.01	1320
35711		<0.01	690
35712		<0.01	940
35713		<0.01	1460
35714		<0.01	570
35715		<0.01	320
35716		<0.01	530
35717		<0.01	510
35718		<0.01	400
35719		<0.01	390
35720		<0.01	380
35721		<0.01	245
35722		<0.01	450

Detn limit

(0.01)

(2)

Analysis code AAS8
AAS1

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Order No. 2538

Results in ppm

Sample	Au	Cu
35723	<0.01	185
35724	<0.01	155
35725	<0.01	510
35726	<0.01	160
35727	<0.01	83
35728	<0.01	40
35729	<0.01	73
35730	<0.01	48
35731	<0.01	285
35732	<0.01	1040
35733	<0.01	145
35734	<0.01	130
35735	<0.01	4480
35832	Listed	Not Received
35833	Listed	Not Received
35834	Listed	Not Received
35835	Listed	Not Received
35836	Listed	Not Received
35837	Listed	Not Received
35838	Listed	Not Received
35839	Listed	Not Received
35840	Listed	Not Received
35841	Listed	Not Received
35842	Listed	Not Received
35843	Listed	Not Received
35844	<0.01	1920
35845	<0.01	450
35846	<0.01	160
35847	<0.01	160
35848	<0.01	125
35849	<0.01	300
35850	<0.01	160
35851	<0.01	405
35852	<0.01	3580
35853	0.22	1340
35854	0.52	9450
35855	0.16	4120
35856	0.08	1.55%
35857	<0.01	3900
35858	<0.01	1340
Detn limit	(0.01)	(2)

Analysis code AAS8
AAS1

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Order No. 2538

Results in ppm

Sample			Au	Cu
35859			<0.01	415
35860			0.52	1.07%
35861			0.20	3940
35862			0.38	3820
35863		0.24	0.22	2760
35864			0.08	1700
35865			0.18	4520
35866	3.50	3.50	3.45	1.03%
35867			0.07	2900
35868			<0.01	550
35869			<0.01	620
35870			0.30	6050
35871			0.80	600
35872			0.94	510
35873			0.22	510
35874			<0.01	630
35875		<0.01	<0.01	710
35876			1.50	6000
35877			<0.01	1060
35878			<0.01	510
35879			<0.01	120
Detn limit			(0.01)	(2)

Analysis code AAS7
AAS1

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Results in ppm

Sample	Au rep.	Au	Cu	Pb	Zn
34513	0.10	0.30	1.34%		
34514	3.89	5.00	2.36%		
34515	5.29	6.35	9200		
34516	2.33	2.45	7150		
34313	6.23	6.90	1.04%		
34314	0.74	0.66	1.14%		
20987	0.06	0.06	776	46	165
Detn limit		(0.01)	(2)	(5)	(2)

ANALYSIS REPORT

Australian
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Sample	Au	Au(R)
34312	0.08	
34313	7.93	7.85
34314	0.40	
34315	0.74	
34316	0.36	
34317	0.41	
34318	0.51	
34319	0.26	0.25
34320	0.41	
34321	Sample not received.	
34322	0.28	
34323	0.03	
34324	0.46	
34325	0.21	0.21
34423	<0.01	
34424	<0.01	
34425	0.68	
34426	0.21	
34427	0.37	
34428	0.37	
34429	1.89	
34430	2.96	
34431	0.95	
34432	0.92	
34433	2.80	

Data in ppm unless otherwise stated.

ANALYSIS REPORT

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Sample	Au	Au(R)
34434	2.50	2.49
34435	2.41	2.50
34436	0.61	
34437	0.14	
34438	0.19	
34439	0.10	
34440	0.26	0.29
34511	0.19	
34512	0.10	
34513	0.09	
34514	5.48	5.33
34515	6.69	7.34
34516	3.19	
34517	1.73	
34518	2.46	
34519	1.53	
34520	0.32	
35302	0.57	0.60
35303	0.96	
35304	0.37	
35305	0.52	
35306	4.83	
35307	4.22	4.43
35308	0.44	
35309	0.36	

Data in ppm unless otherwise stated.

ANALYSIS REPORT

**Australian
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REPORT : PC 020628

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Sample	Au	Au(R)
35310	0.43	
35311	0.28	
35312	0.50	
35313	0.41	0.43
35314	2.03	
35315	0.45	
35316	0.36	
35317	5.61	5.67
35318	1.13	
35319	0.22	
35320	0.55	
35321	0.22	
35322	0.76	0.74
35323	4.73	
35324	3.83	
35325	1.24	
35421	0.02	
35422	0.03	
35423	0.04	
35424	0.02	
35425	11.6	11.2
35426	6.08	
35427	1.56	1.64
35428	0.97	
35429	0.35	

Data in ppm unless otherwise stated.

ANALYSIS REPORT



Australian
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Sample	AU	AU(R)
35430	0.47	
35431	2.31	
35432	3.30	
35433	0.65	0.63
35434	0.54	
35435	0.75	
35541	4.46	
35542	5.00	5.22
35543	1.64	
35544	1.02	
35545	0.64	
35546	0.87	
35547	0.27	
35548	0.33	
35549	1.57	1.46
35550	2.50	

Data in ppm unless otherwise stated.

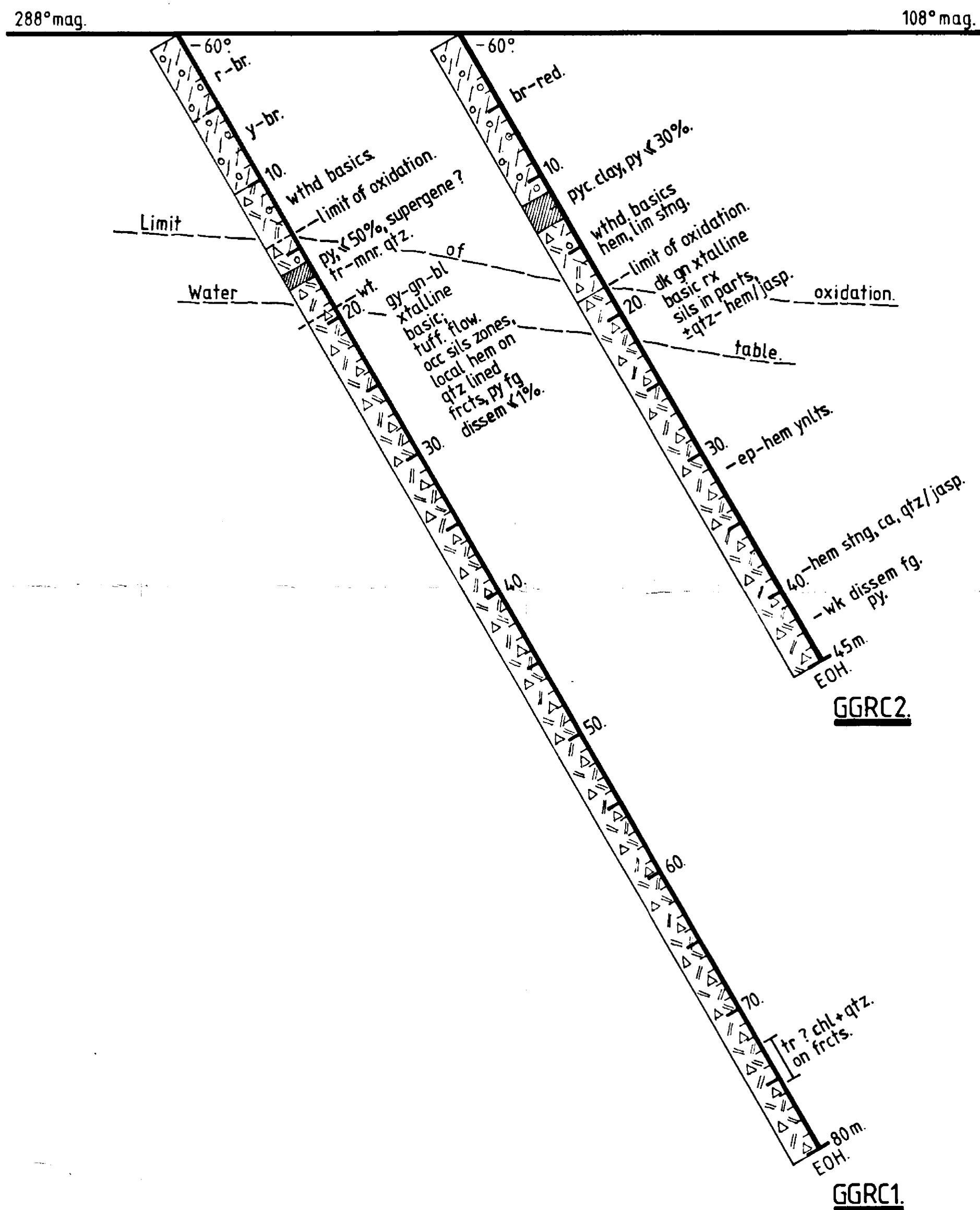
EL 4457 Eva Valley
Final Report

Volume II
Figures

OPEN FILE

CR90/442

B



KEY TO GEOLOGY LOGS:

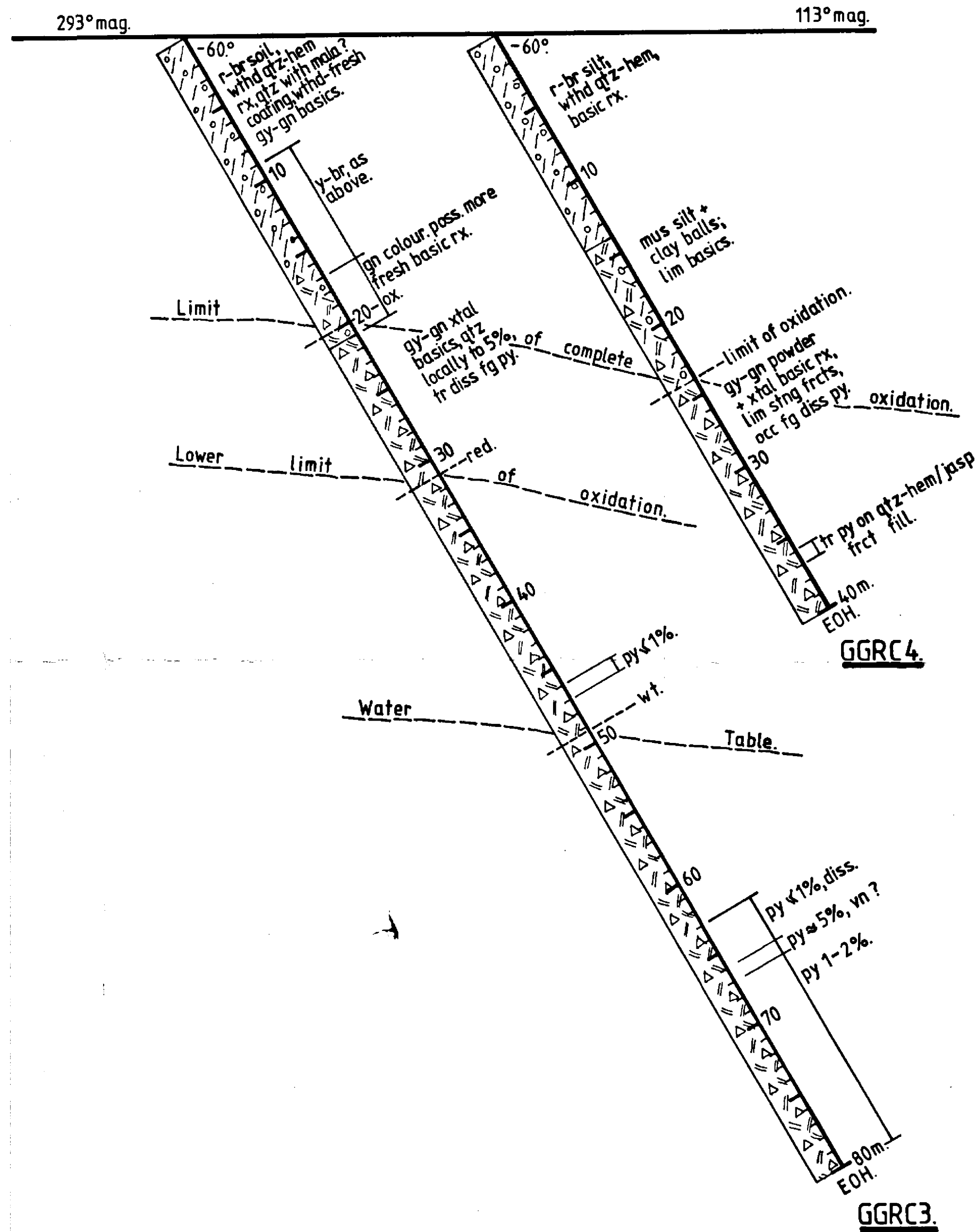
- Soils, clays, alluvial cover.
- Weathered zone, clays and rock fragments.
- Andesitic-basaltic volcanics.
- Lithic ?, tuffaceous lithology.
- py ? Supergene pyrite layer.
(fine grained granular pyrite.)

wt: water. (table.)	gn: green.
ox: oxidation zone.	gy: grey.
red: reduction zone.	or: orange.
tr: trace.	mus: mustard.
py: pyrite.	br: brown.
ep: epidote.	r: red.
ca: calcite.	bl: black.
cpy: chalcopryite.	y: yellow.
asp: arsenopyrite.	khaki: khaki.
hem: hematite.	l: light.
lim: limonite.	dk: dark.
qtz: quartz.	
mala: malachite.	
stng: staining.	
wthd: weathered.	



EVA VALLEY DRILLING.
SECTIONS GGRC1. - GGRC2.
GEOLOGY.

DATE: JULY '89.	SCALE: 1:250.	PLAN NO.
PREPARED: K.A.M.	DRAWN: H.H.	SHEET NO. 4



KEY TO GEOLOGY LOGS:

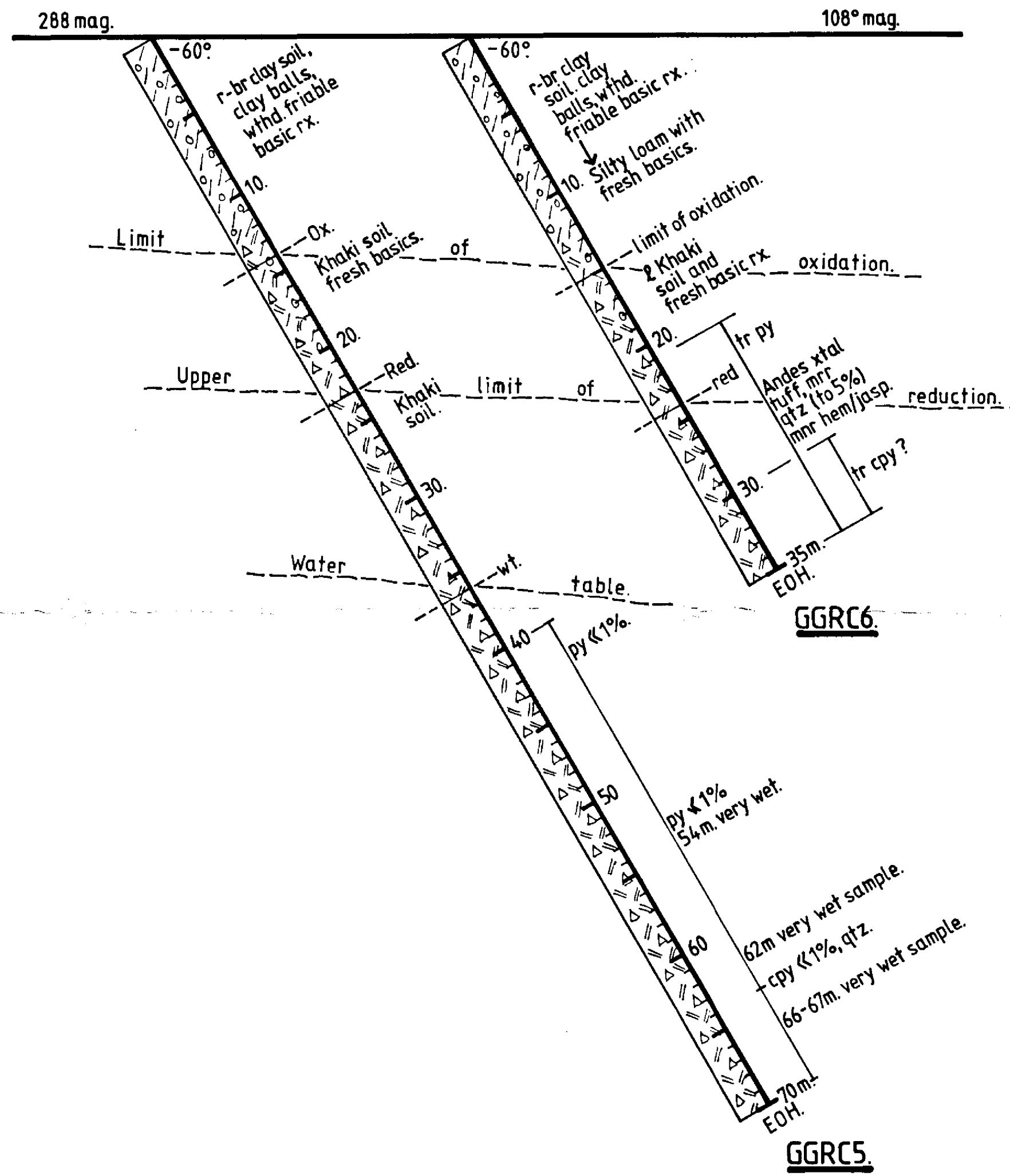
- Soils, clays, alluvial cover.
- Weathered zone, clays and rock fragments.
- Andesitic-basaltic volcanics.
- Lithic ?, tuffaceous lithology.
- py ? Supergene pyrite layer. (fine grained granular pyrite.)

wt: water (table.)	gn: green.
ox: oxidation zone.	gy: grey.
red: reduction zone.	or: orange.
tr: trace.	mus: mustard.
py: pyrite.	br: brown.
ep: epidote.	r: red.
ca: calcite.	bl: black.
cpy: chalcopryite.	y: yellow.
asp: arsenopyrite.	khaki: khaki.
hem: hematite.	l: light.
lim: limonite.	dk: dark.
qtz: quartz.	
mala: malachite.	
stng: staining.	
withd: weathered.	

denehurst
LIMITED
CR 90/442B

EVA VALLEY DRILLING.
SECTIONS GGRC3 & GGRC4.
GEOLOGY.

DATE: JULY'89.	SCALE: 1:250.	PLAN N°
PREPARED: K.A.M.	DRAWN: H.H.	SHEET N° 5



KEY TO GEOLOGY LOGS:

- Soils, clays, alluvial cover.
- Weathered zone, clays and rock fragments.
- Andesitic-basaltic volcanics.
- Lithic ?, tuffaceous lithology.
- py ? Supergene pyrite layer. (fine grained granular pyrite.)

- | | |
|----------------------|---------------|
| wt: water (table.) | gn: green. |
| ox: oxidation zone. | gy: grey. |
| red: reduction zone. | or: orange. |
| tr: trace. | mus: mustard. |
| py: pyrite. | br: brown. |
| ep: epidote. | r: red. |
| ca: calcite. | bl: black. |
| cpy: chalcopryrite. | y: yellow. |
| asp: arsenopyrite. | khaki: khaki. |
| hem: hematite. | l: light. |
| lim: limonite. | dk: dark. |
| qtz: quartz. | |
| mala: malachite. | |
| stng: staining. | |
| withd: weathered. | |

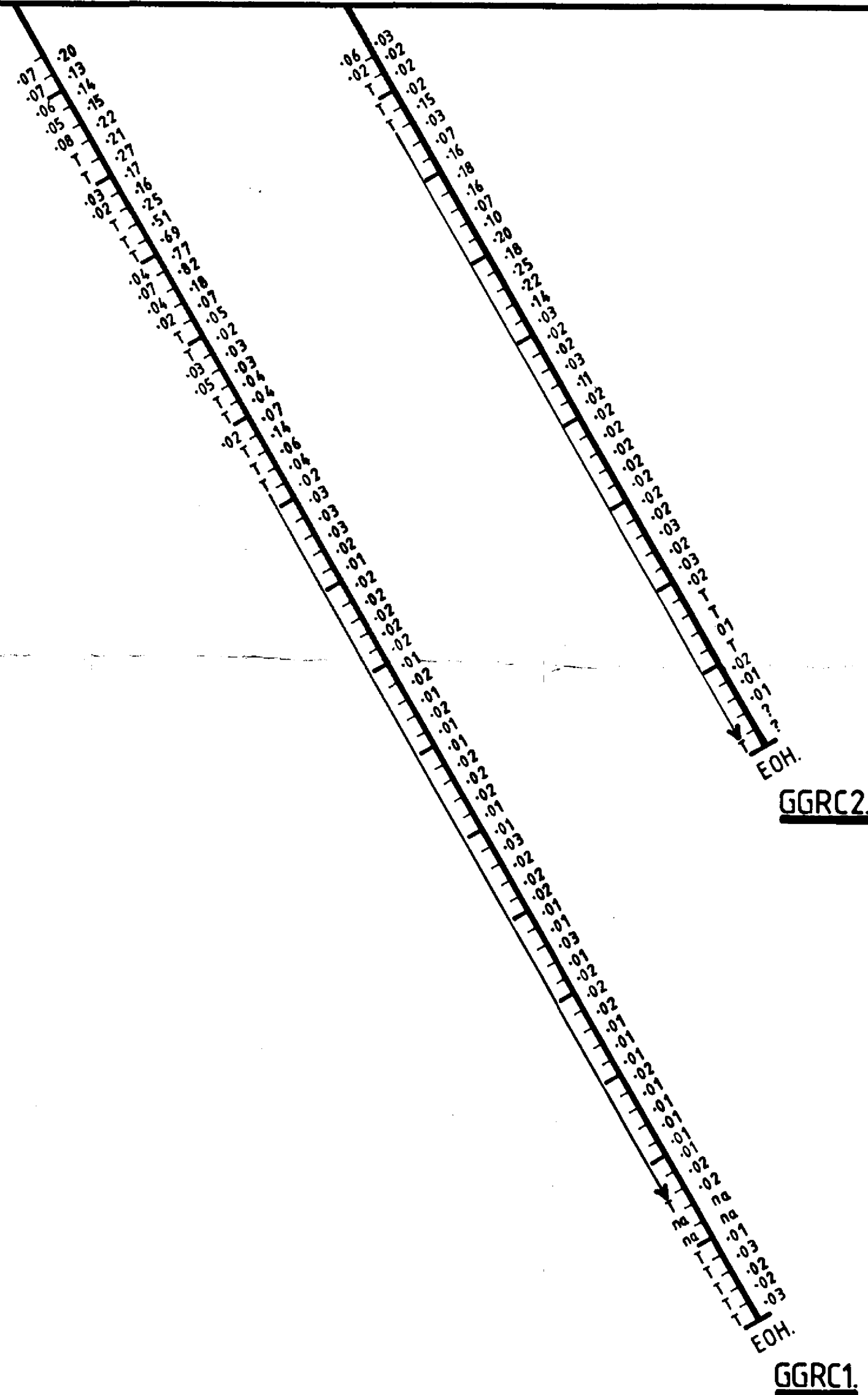
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CR 90/442 B

EVA VALLEY DRILLING.
SECTIONS GGRC5 - GGRC6.
GEOLOGY.

DATE: JULY 189.	SCALE: 1:250.	PLAN N°
PREPARED: K.A.M.	DRAWN: H.H.	SHEET N° 6

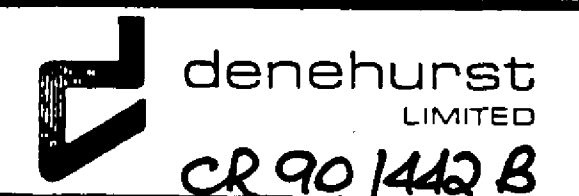
288° mag.

108° mag.



LEGEND:

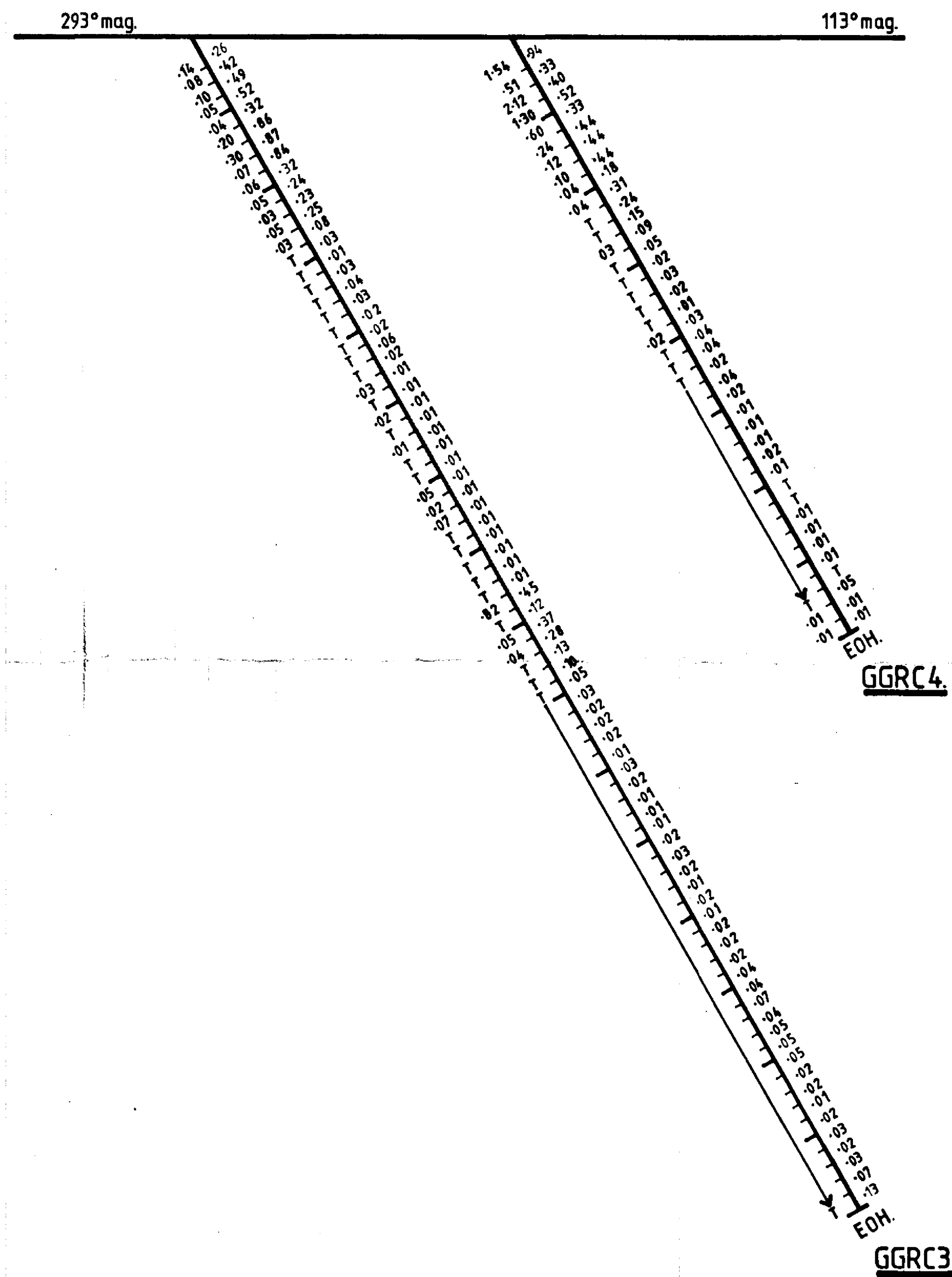
~~Au g/t~~ ~~Cu %~~ DRILLHOLE ASSAY RESULTS.



CR 90/1442 B

EVA VALLEY DRILLING.
SECTIONS GGRC1. - GGRC2.
ASSAY RESULTS.

DATE: JULY '89.	SCALE: 1:250.	PLAN NO
PREPARED: K.A.M.	DRAWN: H.H.	SHEET NO 7



LEGEND:

 DRILLHOLE ASSAY RESULTS.

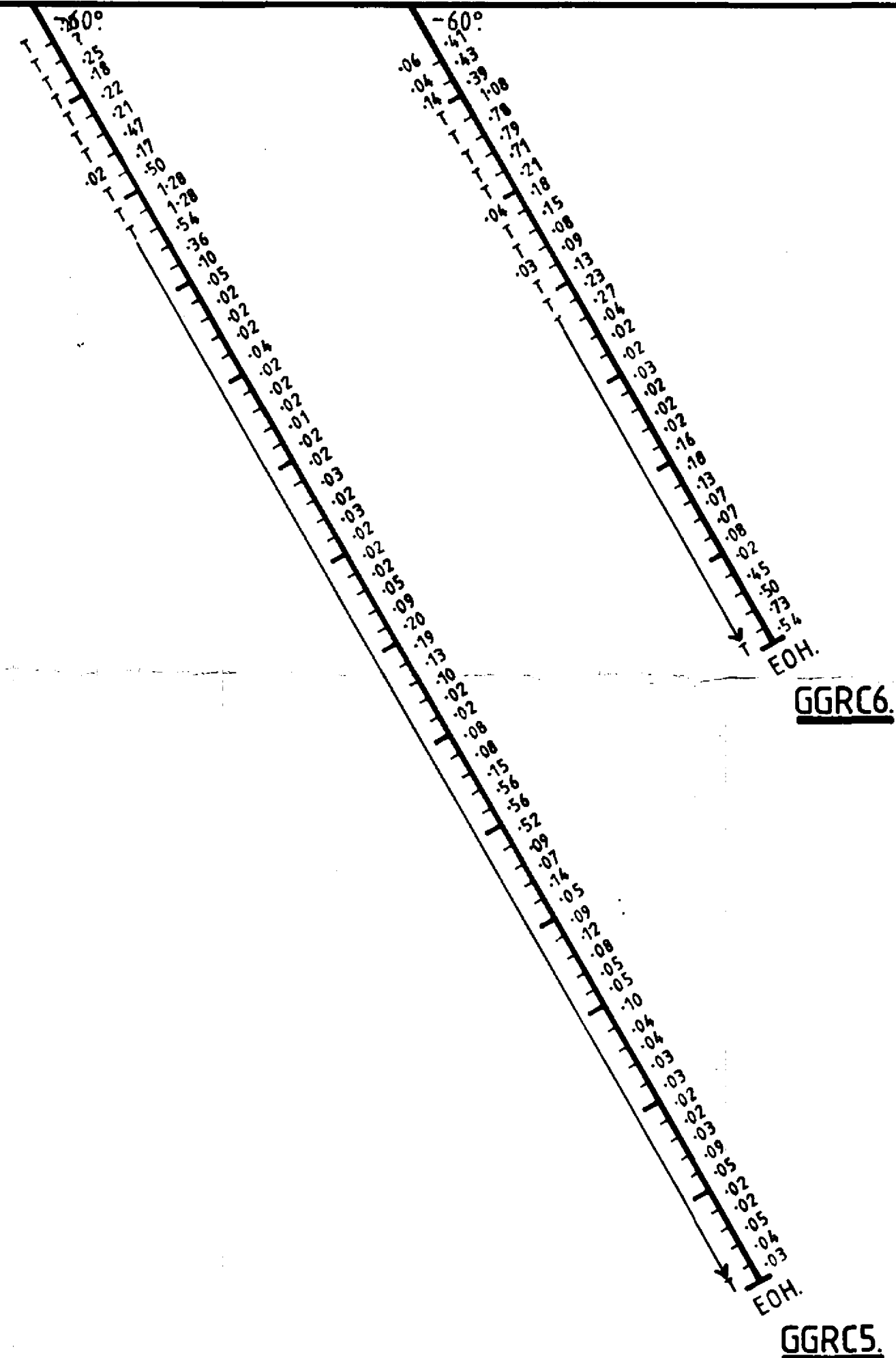
 **denehurst**
LIMITED
CR 90/442 B

EVA VALLEY DRILLING.
SECTIONS GGRC3 & GGRC4.
ASSAY RESULTS.

DATE: JULY'89	SCALE: 1:250.	PLAN N°
PREPARED: K.A.M.	DRAWN: H.H.	SHEET N° 8

288 mag.

108° mag.



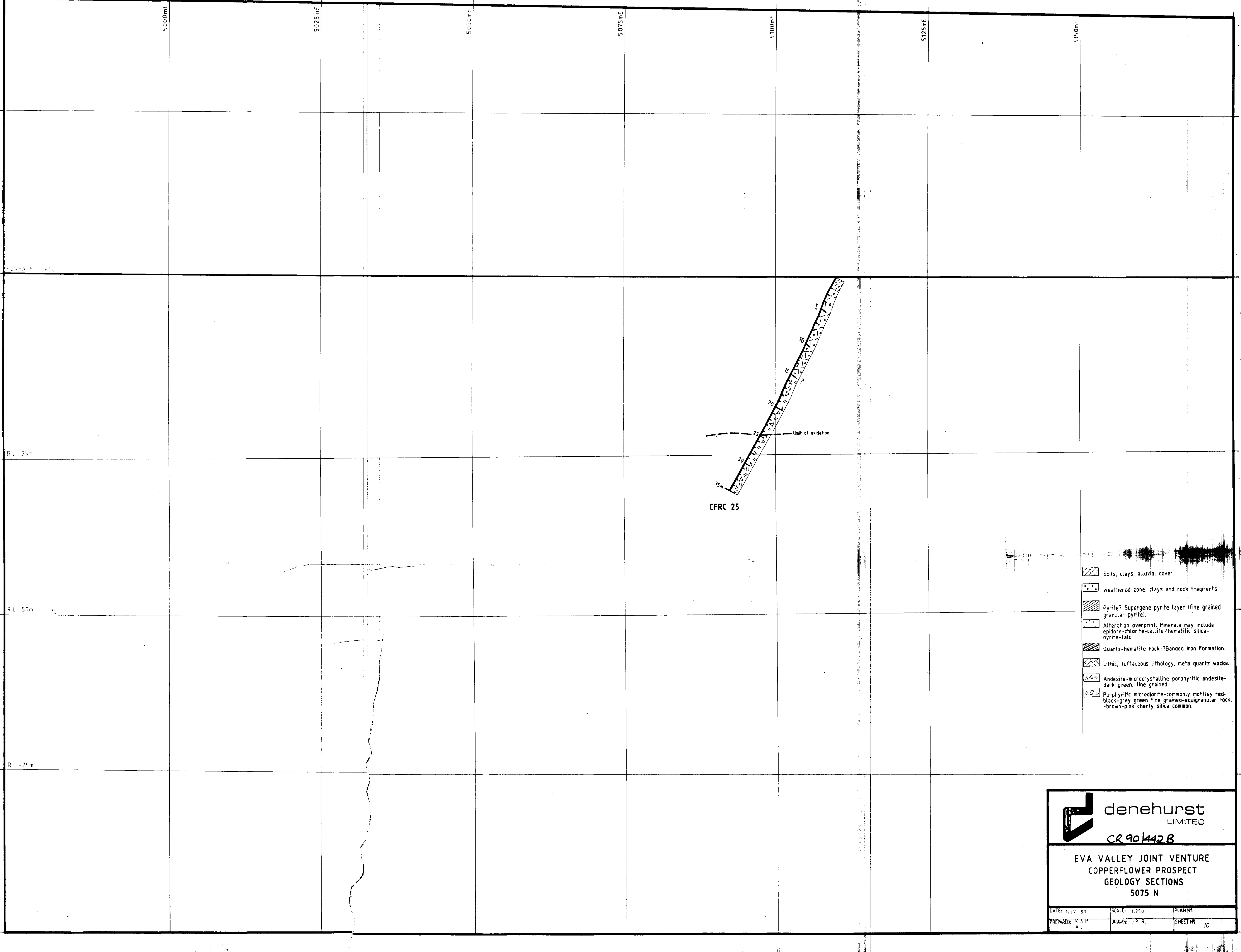
LEGEND:

~~Au. g/t.~~ ~~Cu. %.~~ **DRILLHOLE ASSAY RESULTS.**

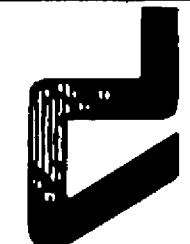


EVA VALLEY DRILLING.
SECTIONS GGRC5 - GGRC6.
ASSAY RESULTS.

DATE: JULY'89.	SCALE: 1:250.	PLAN N°
PREPARED: K.A.M.	DRAWN: H.H.	SHEET N° 9



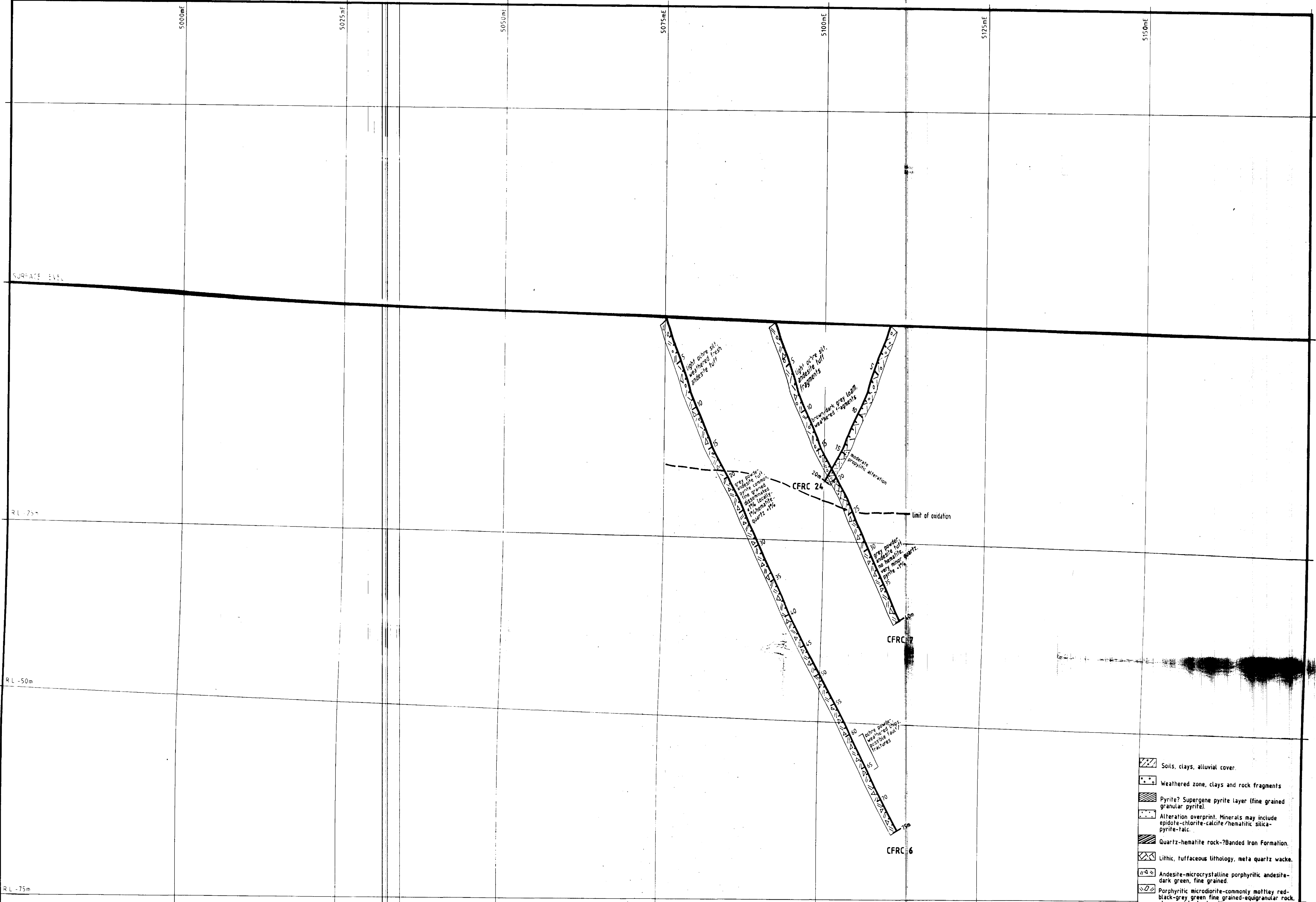
- Soils, clays, alluvial cover.
- Weathered zone, clays and rock fragments
- Pyrite? Supergene pyrite layer (fine grained granular pyrite).
- Alteration overprint. Minerals may include epidote-chlorite-calcite/hematitic silica-pyrite-talc.
- Quartz-hematite rock-?Banded Iron Formation.
- Lithic, tuffaceous lithology, meta quartz wacke.
- Andesite-microcrystalline porphyritic andesite-dark green, fine grained.
- Porphyritic microdiorite-commonly mottled red-black-grey green fine grained-equigranular rock, -brown-pink cherty silica common.

**denehurst**
LIMITED

CR 90442B

EVA VALLEY JOINT VENTURE
COPPERFLOWER PROSPECT
GEOLOGY SECTIONS
5075 N

DATE: 1/12/89	SCALE: 1:250	PLANN
PREPARED: K.A.M.	DRAWN: J.P.R.	SHEET 10



- Soils, clays, alluvial cover.
- Weathered zone, clays and rock fragments
- Pyrite? Supergene pyrite layer (fine grained granular pyrite).
- Alteration overprint. Minerals may include epidote-chlorite-calcite/hematitic silica-pyrite-talc.
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- Porphyritic microdiorite-commonly mottled red-black-grey green fine grained-equigranular rock, brown-pink cherty silica common.

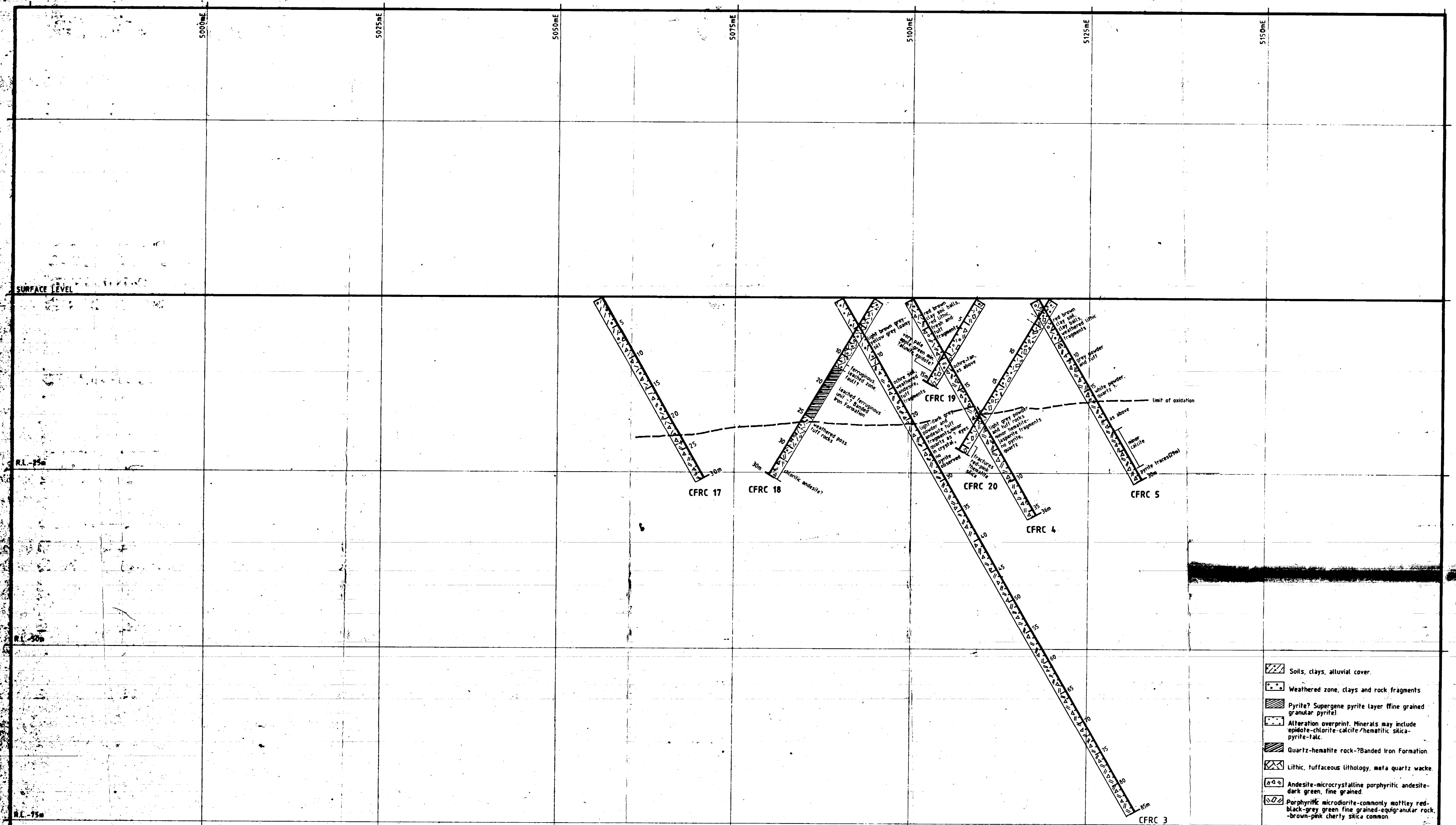


denehurst
LIMITED

CR 90/142 B

EVA VALLEY JOINT VENTURE
COPPERFLOWER PROSPECT
GEOLOGY SECTIONS
5096 N

DATE: NOV 89	SCALE: 1:250	PLAN NO.
PREPARED: X.A.M.	DRAWN: J.P.R.	SHEET NO. 11



denehurst
LIMITED

CR 90/442 B

**EVA VALLEY JOINT VENTURE
COPPERFLOWER PROSPECT
GEOLOGY SECTIONS
5152.5N**

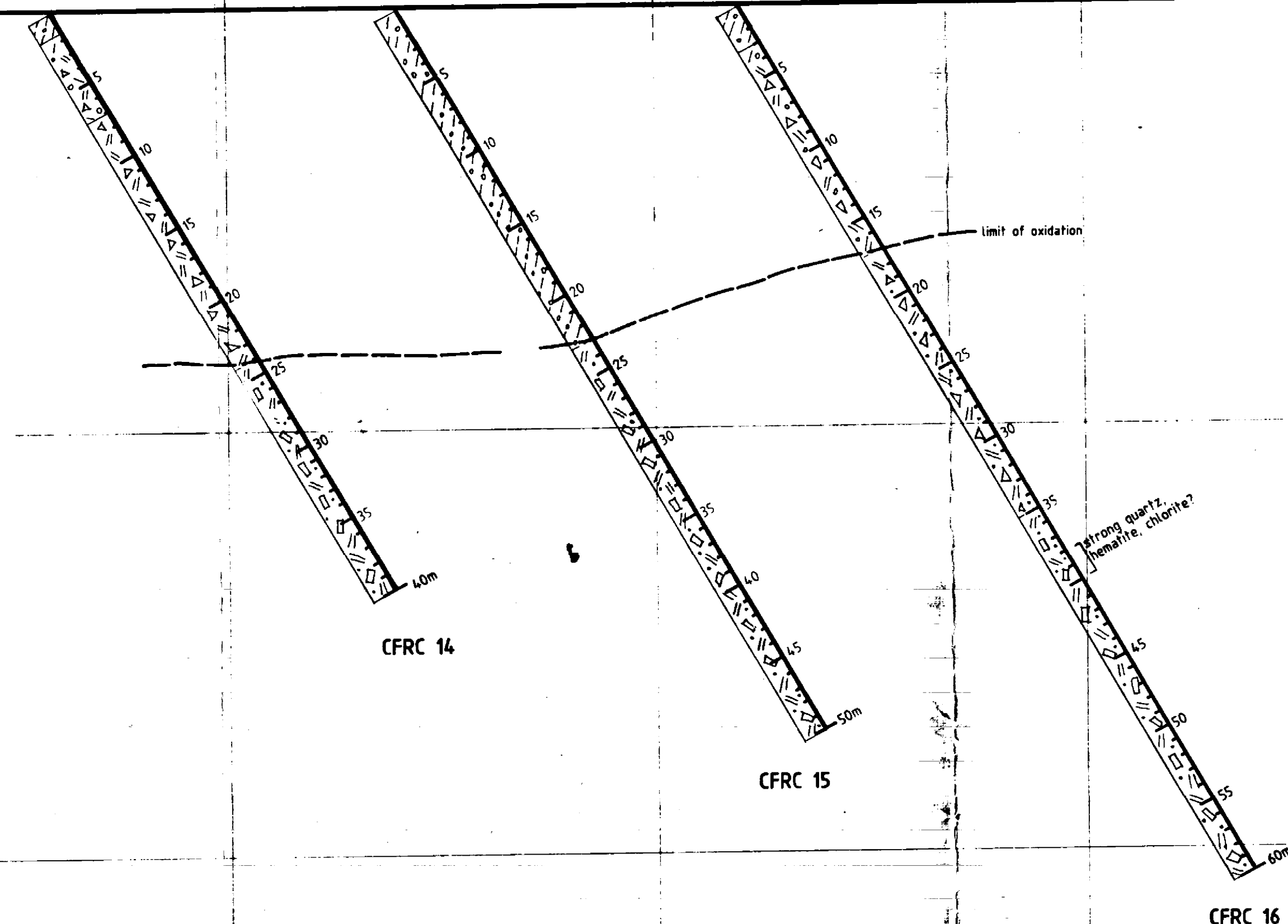
DATE: NOV. 89	SCALE: 1:250	PLAN N1
PREPARED: K.A.M. A.L.	DRAWN: J.P.R.	SHEET N1 13

SURFACE LEVEL

R.L. -25m

R.L. -50m

R.L. -75m



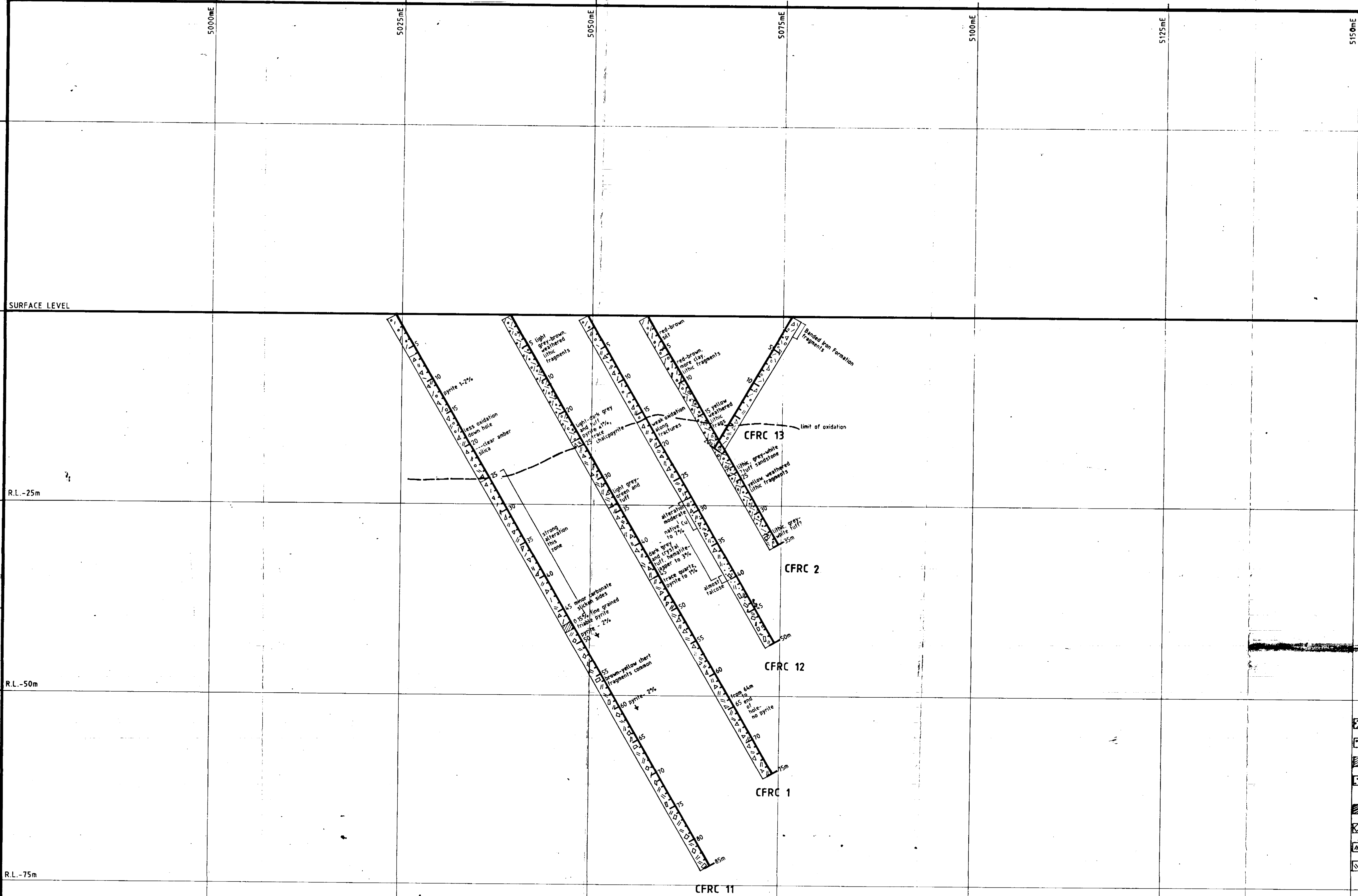
- Soils, clays, alluvial cover.
- Weathered zone, clays and rock fragments
- Pyrite? Supergene pyrite layer (fine grained granular pyrite).
- Alteration overprint. Minerals may include epidote-chlorite-calcite/hematitic silica-pyrite-talc.
- Quartz-hematite rock-?Banded Iron Formation.
- Lithic, tuffaceous lithology, meta quartz wacke.
- Andesite-microcrystalline porphyritic andesite-dark green, fine grained.
- Porphyritic microdiorite-commonly mottled red-black-grey green fine grained-equigranular rock-brown-pink cherty silica common.

**denehurst**
LIMITED

CR 90 K42 B

EVA VALLEY JOINT VENTURE
COPPERFLOWER PROSPECT
GEOLOGY SECTIONS.
5179 N

DATE: NOV. 89	SCALE: 1:250	PLAN NO.
PREPARED: K.A.M. A.L.	DRAWN: J.P.R.	SHEET NO. 14



- Soils, clays, alluvial cover.
- Weathered zone, clays and rock fragments
- Pyrite? Supergene pyrite layer (fine grained granular pyrite).
- Alteration overprint. Minerals may include epidote-chlorite-calcite/hematitic silica-pyrite-lalc.
- Quartz-hematite rock-?Banded Iron Formation.
- Lithic, tuffaceous lithology, meta quartz wacke.
- Andesite-microcrystalline porphyritic andesite-dark green, fine grained.
- Porphyritic microdiorite-commonly mottled red-black-grey green fine grained-equigranular rock-brown-pink cherty silica common.

denehurst
LIMITED

CR 90/442 B

EVA VALLEY JOINT VENTURE
COPPERFLOWER PROSPECT
GEOLOGY SECTIONS
5200 N

DATE: NOV. 89	SCALE: 1:250	PLAN: M
PREPARED: K.A.M.	DRAWN: J.P.R.	SHEET: 1/5

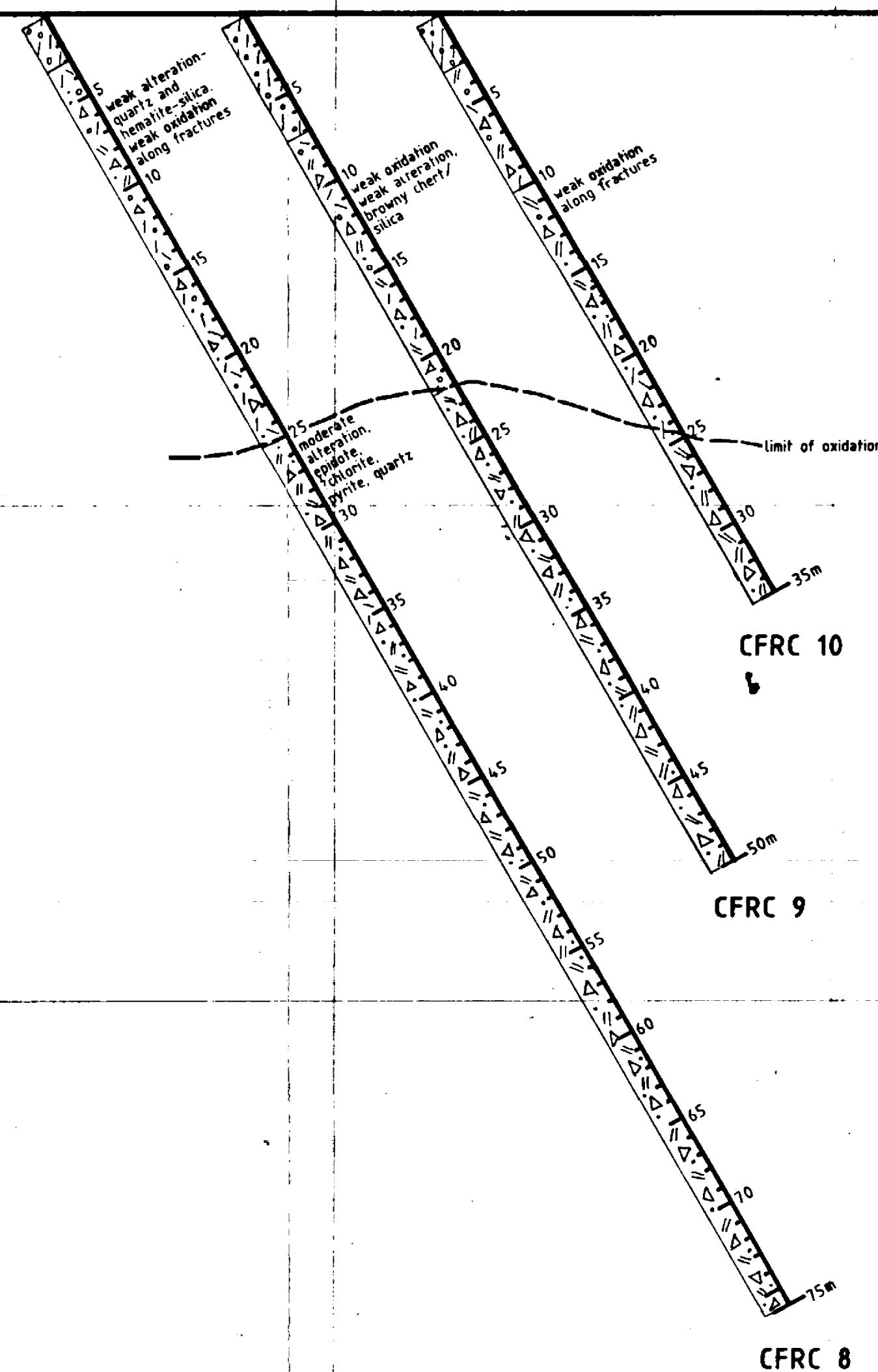
5000mE 5025mE 5050mE 5075mE 5100mE 5125mE 5150mE

SURFACE LEVEL

R.L. -25m

R.L. -50m

R.L. -75m

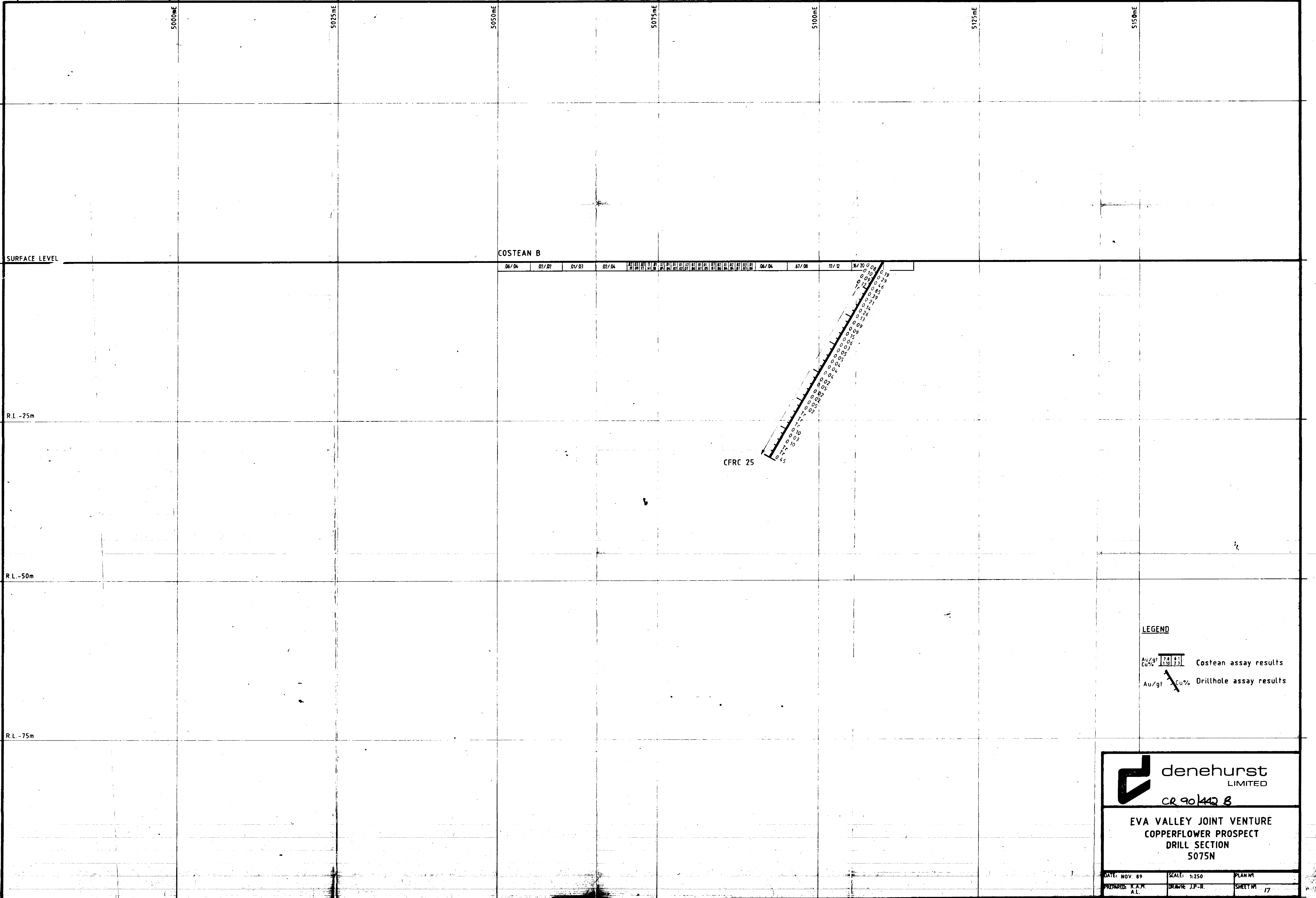


- Soils, clays, alluvial cover.
- Weathered zone, clays and rock fragments
- Pyrite? Supergene pyrite layer (fine grained granular pyrite)
- Alteration overprint. Minerals may include epidote-chlorite-calcite/hematitic silica-pyrite-talc.
- Quartz-hematite rock-?Banded Iron Formation.
- Lithic, tuffaceous lithology, meta quartz wacke.
- Andesite-microcrystalline porphyritic andesite-dark green, fine grained.
- Porphyritic microdiorite-commonly mottled red-black-grey green fine grained-equigranular rock-brown-pink cherty silica common.

denehurst
LIMITED
CR90/428

EVA VALLEY JOINT VENTURE
COPPERFLOWER PROSPECT
"GEOLOGY SECTIONS"
5225N

DATE: NOV. 89 SCALE: 1:250 PLAN: M
PREPARED: K.A.M. AL. DRAWN: J.P.W. SHEET: 16



COSTEAN B

CFRC 25

LEGEND

Au/gt

7.8	6.1
1.10	2.3

 Costean assay results
Au/gt

1.10	2.3
------	-----

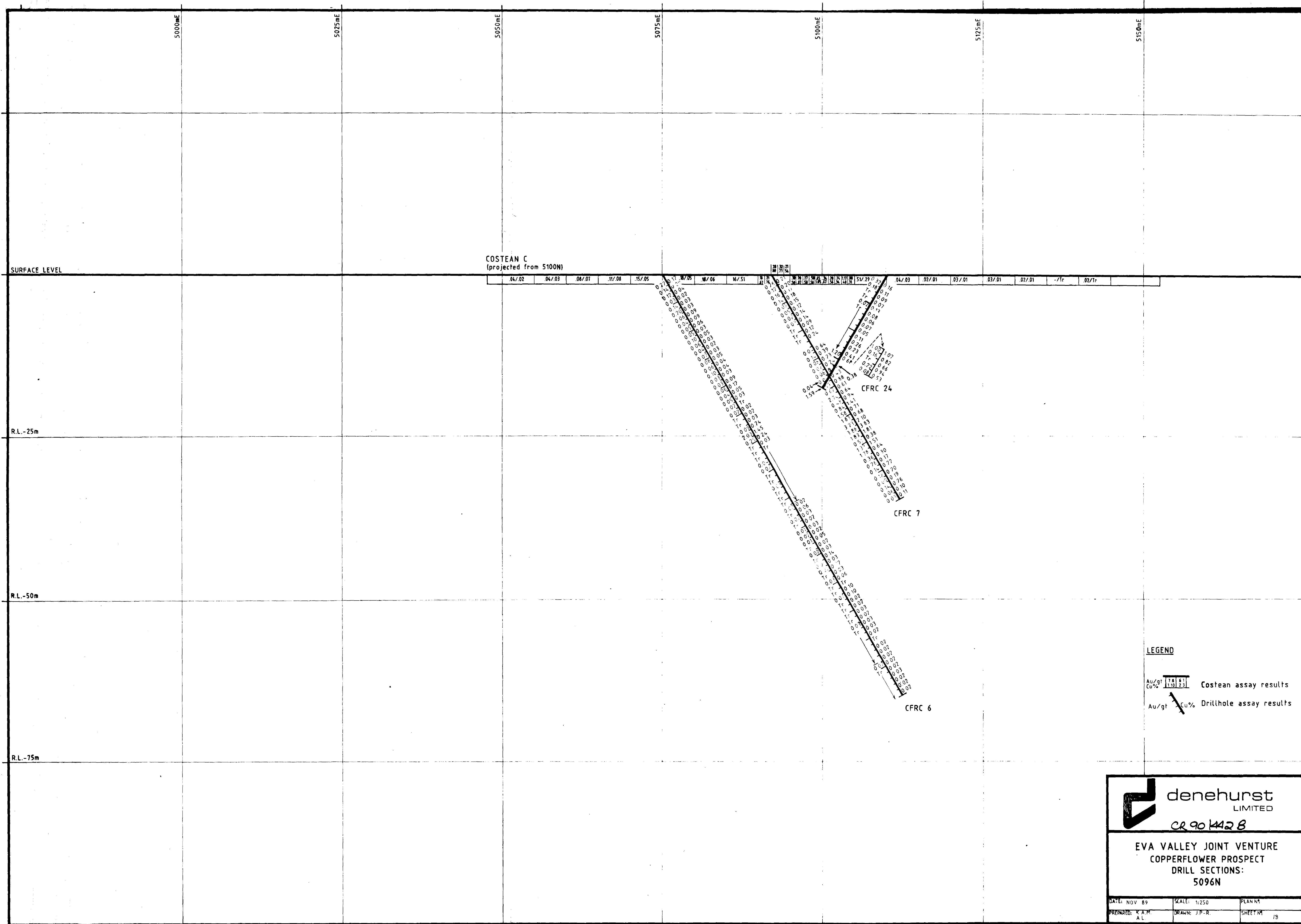
 Drillhole assay results

**denehurst**
LIMITED

CR 90/442 B

EVA VALLEY JOINT VENTURE
COPPERFLOWER PROSPECT
DRILL SECTION
5075N

DATE: NOV. 89	SCALE: 1:250	PLAN M
PREPARED: K.A.M. A.L.	DRAWN: J.P.H.	SHEET M 17



LEGEND

Au/gt 1.4 5.1
Cu% 1.10 2.3 Costean assay results

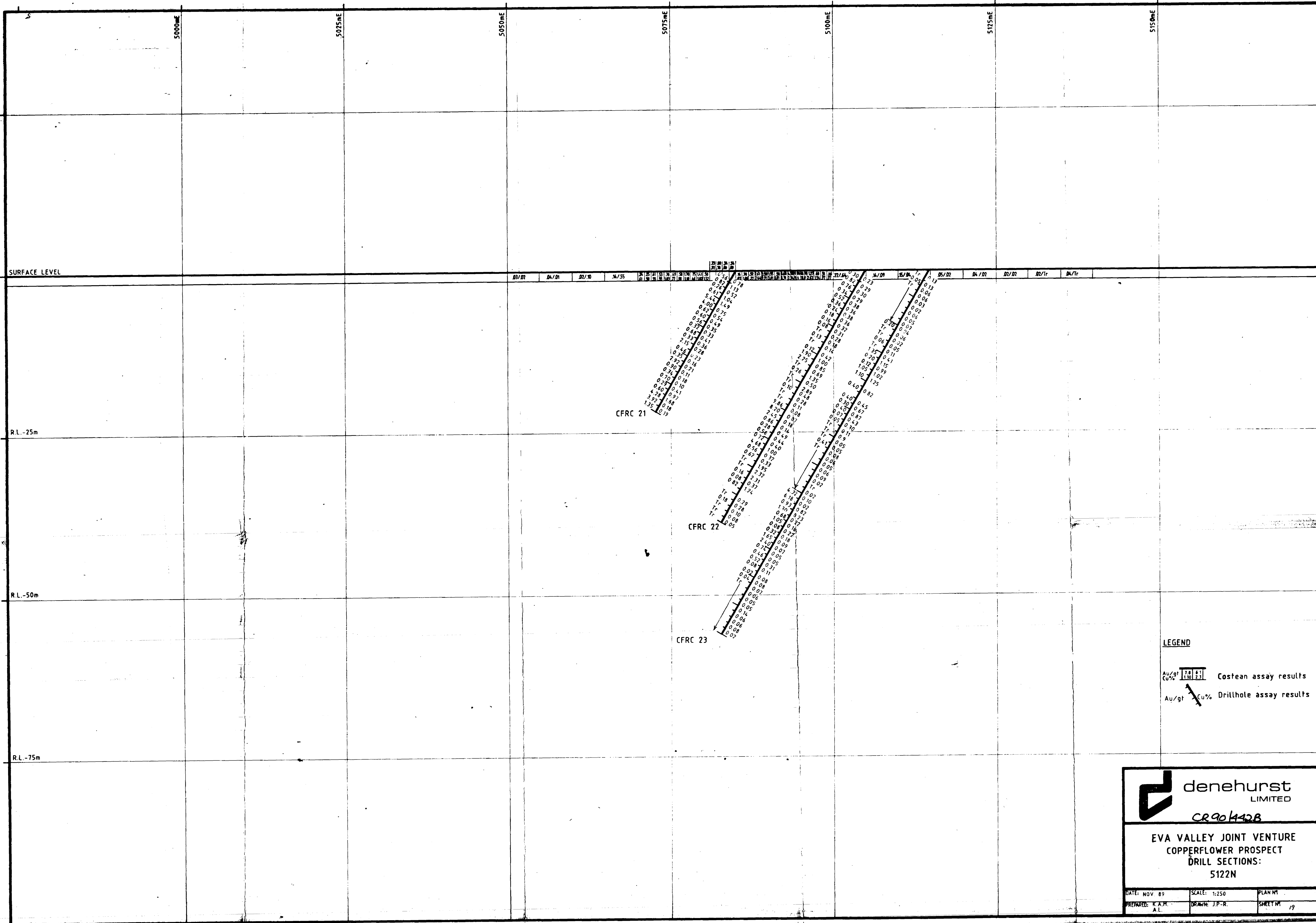
Au/gt 1.4 5.1
Cu% 1.10 2.3 Drillhole assay results

**denehurst**
LIMITED

CR 90 1442 B

EVA VALLEY JOINT VENTURE
COPPERFLOWER PROSPECT
DRILL SECTIONS:
5096N

DATE: NOV 89	SCALE: 1:250	PLAN: 1
PREPARED: K.A.M. A.L.	DRAWN: J.P.R.	SHEET: 1/8



LEGEND

Au/gt 7.4 8.1 Costean assay results

Au/gt 1.6 2.1 Cu% Drillhole assay results

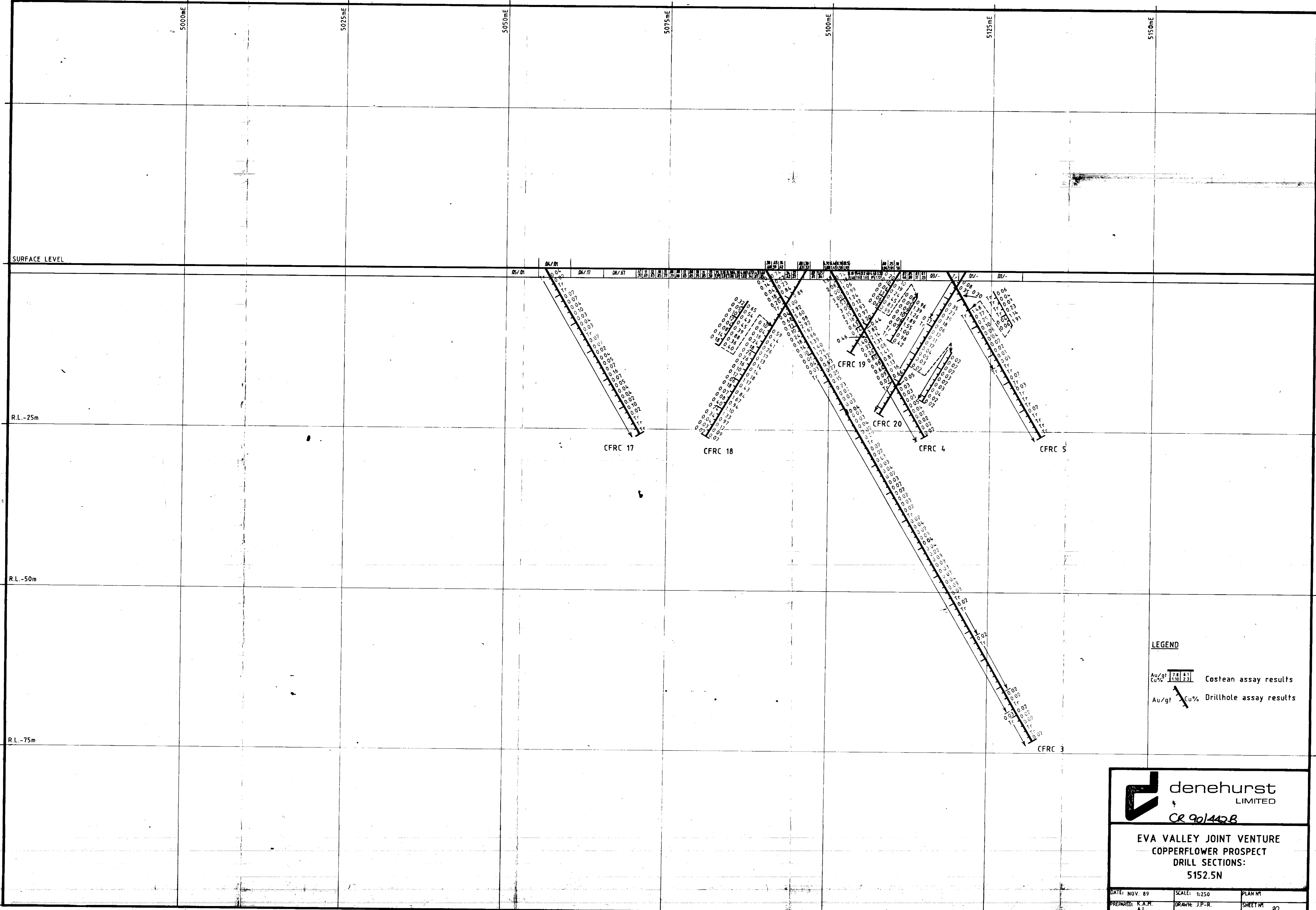


denehurst
LIMITED

CR90/442B

EVA VALLEY JOINT VENTURE
COPPERFLOWER PROSPECT
DRILL SECTIONS:
5122N

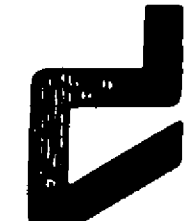
DATE: NOV 89	SCALE: 1:250	PLAN NO.
PREPARED: K.A.H. A.L.	DRAWN: J.P.R.	SHEET NO. 19



LEGEND

Au/gt 7.4 4.1
Cu% 1.10 2.3 Costean assay results

Au/gt Cu% Drillhole assay results

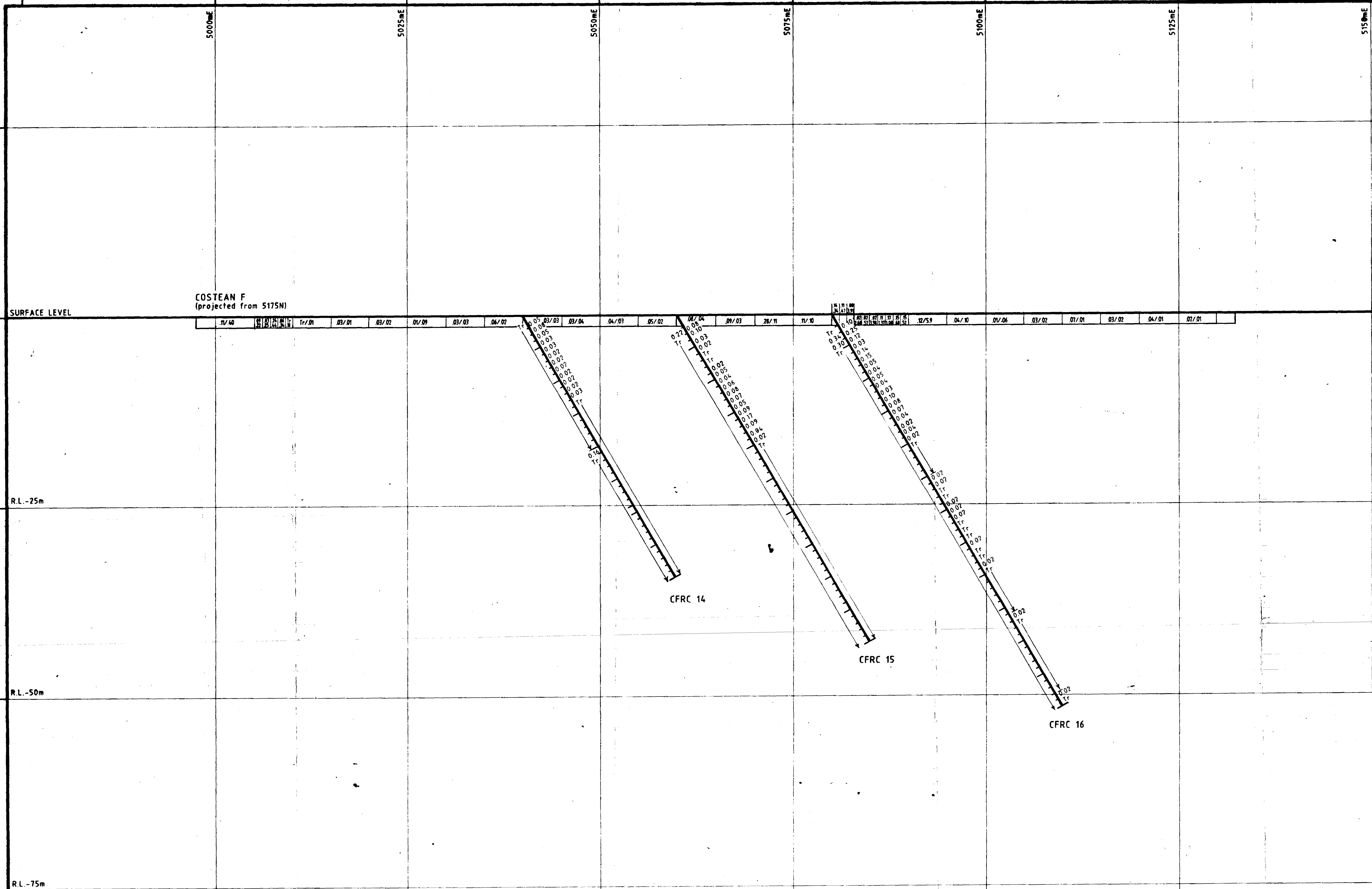


denehurst
LIMITED

CR 90/442B

EVA VALLEY JOINT VENTURE
COPPERFLOWER PROSPECT
DRILL SECTIONS:
5152.5N

DATE: NOV. 89	SCALE: 1:250	PLAN M
PREPARED: K.A.M. A.L.	DRAWN: J.P.R.	SHEET NO. 20



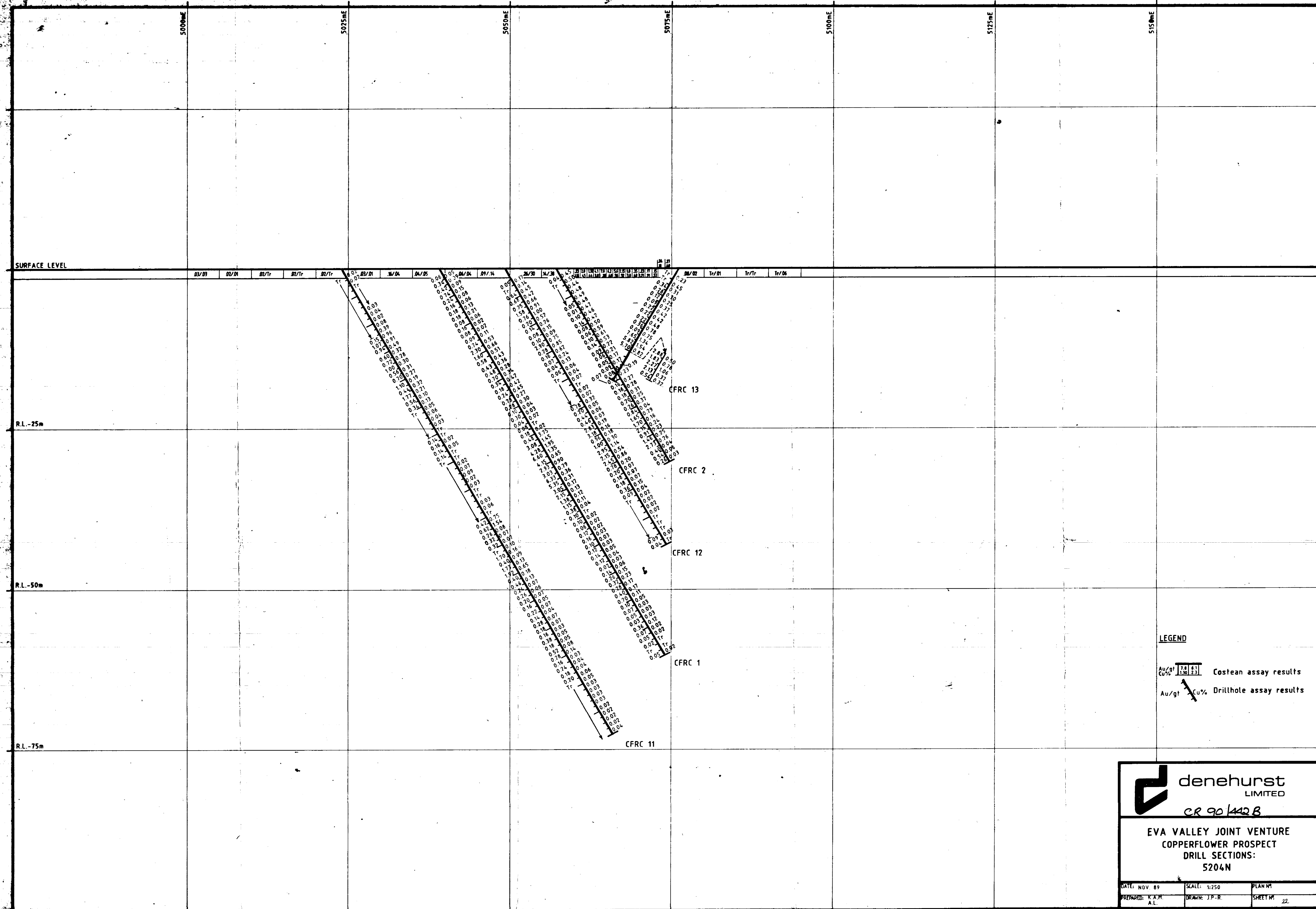
LEGEND

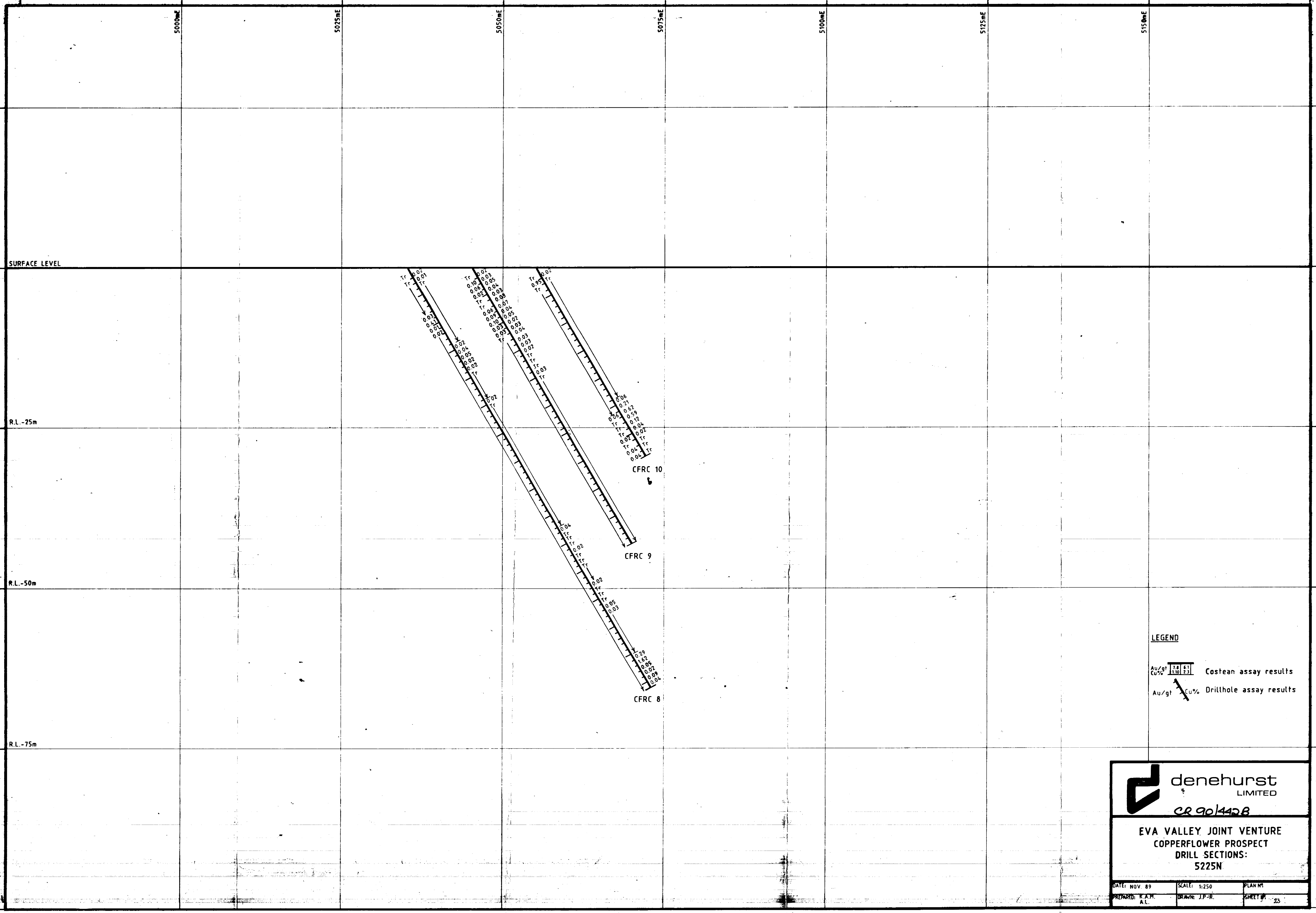
Au/gt 7.8 6.3 Costean assay results
Cu% 1.10 2.31
Au/gt Cu% Drillhole assay results

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LIMITED
CR 90/442B

EVA VALLEY JOINT VENTURE
COPPERFLOWER PROSPECT
DRILL SECTIONS:
5179N

DATE: NOV. 89 SCALE: 1:250 PLAN M
PREPARED: K.A.H. DRAWN: J.P.-R. SHEET: 21
A.L.

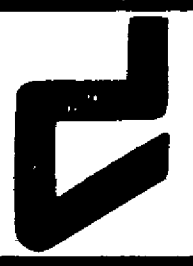




LEGEND

Au/gt 7.8 8.1
Cu% 1.00 2.31 Costean assay results

Au/gt 1.00 2.31
Cu% 1.00 2.31 Drillhole assay results

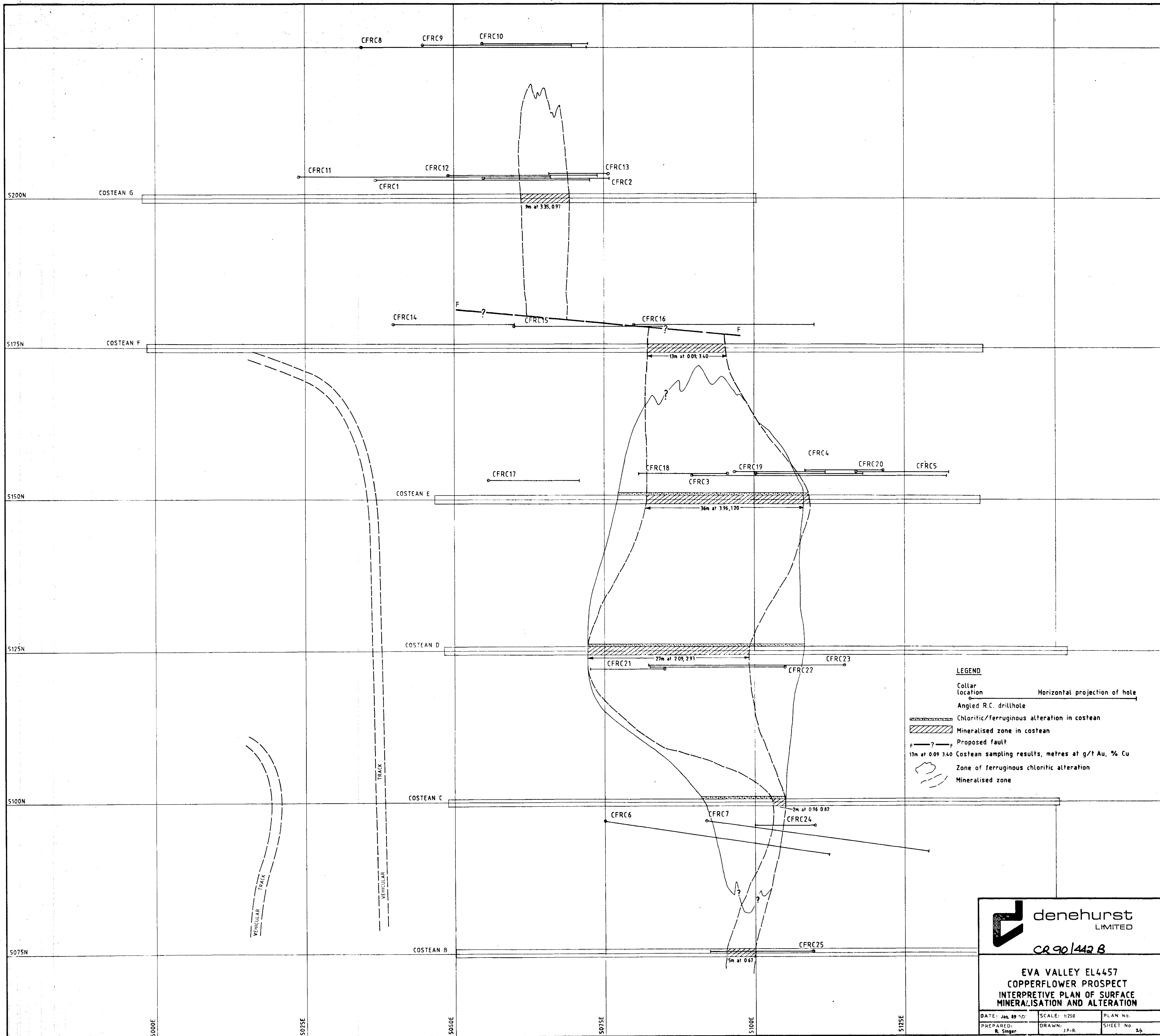


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CR 90/442B

EVA VALLEY JOINT VENTURE
COPPERFLOWER PROSPECT
DRILL SECTIONS:
5225N

DATE: NOV. 89	SCALE: 1:250	PLAN: M
PREPARED: K.A.H. A.L.	DRAWN: J.P.R.	SHEET 23

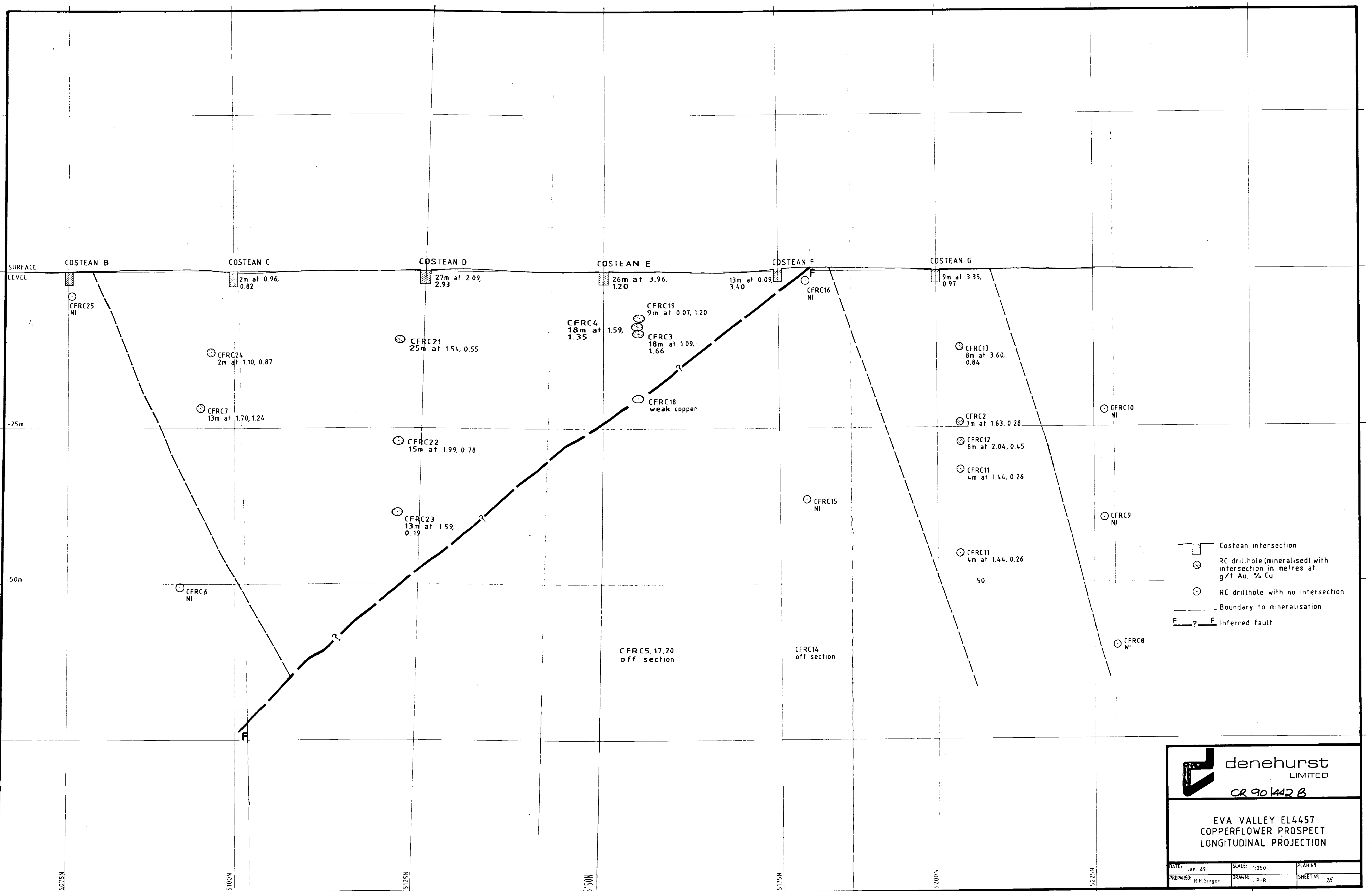


**denehurst**
LIMITED

CR 90/442 B

**EVA VALLEY EL4457
COPPERFLOWER PROSPECT
INTERPRETIVE PLAN OF SURFACE
MINERALISATION AND ALTERATION**

DATE: Jan. 89	SCALE: 1:250	PLAN No.
PREPARED: R. Singer	DRAWN: J.P.R.	SHEET No. 24



EL 4457 Eva Valley
Final Report

Volume III
Map Sheets

OPEN FILE

CR90/442C

REFERENCE

Quaternary	Qa	alluvium deposit,sand,silt,gravel,dark grey clay soil
Cainozoic	Czs	Residual sand and soils
	Czi	Pisolithic laterite and ferruginous rubble,pebble surface
	Czv	Basalt,basaltic conglomerate
Early Proterozoic	Peh	Hindrance Creek Sandstone,massive medium grained feldspathic and micaceous sandstone
	Peg	Eva Valley Granite,porphyritic biotite leucogranite
	gr	biotite adamellite,minor xenolithic biotite leucogranite with quartz + greisen veins;pods
	Pdm	Maud Dolerite,meta-dolerite,?amphibolite
	Pbt	Toll's Formation
	a	very thin to medium bedded micaceous shales,siltstone, fine to medium grained sandstone
	b	chloritic argillites,basaltic dolerite,siliceous dark green meta-tuffs,minor chert and acid volcanics,silica-haematite to jasperite to banded iron formation exhalites (bif), rare tourmaline and barite bearing exhalites
	bif	
	c	grey to mauve shale,tan siltstone and grey fine to medium grained micaceous sandstone-arkose.

LEGEND

	Geological boundary,position certain
	Geological boundary,position uncertain
	Probable fault
	Photo linear
	Shear zone
	Cleavage,strike and dip
	Bedding,strike and dip
	Vein,q-quartz,ch-chert,silica breccia
	bx-breccia,gr-greisen
	Prospect abandoned
	Major working,abandoned
	Visible mineralization,Cu-copper,Pb-Lead
	Road
	Track
	EL Boundary
	Watercourse
	Fence

Mag North

SCALE 1:20000

metres 500 0 500 1000 1500 2000 2500 metres
PRODUCED BY ARESEARCH MAPPING PTY. LTD.



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CR 901442C

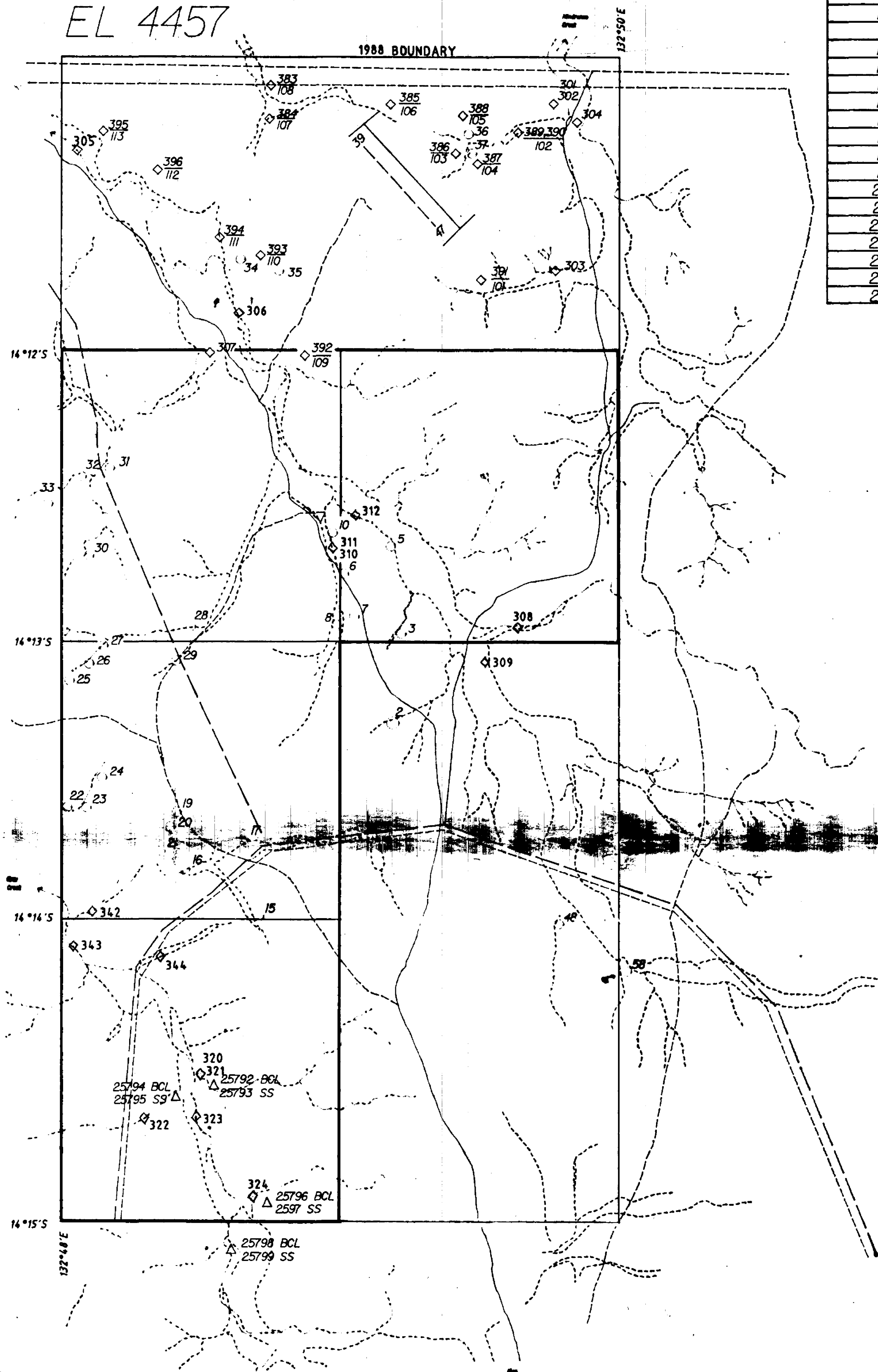
E.L. 4457 Eva Valley,N.T.
GEOLOGICAL MAP

Author	Ken MacKillop	Drawn	ARESEARCH MAPPING PTY. LTD.
Date	NOVEMBER 1988	Scale	1:20000
Plan No		Sheet	1

Stream Sediment Geochemistry - Billiton.

	Au ppb	Cu ppm		Au ppb	Cu ppm
301	0.05	37	311	0.25	60
302	<5	34	312	0.05	13
303	0.4	66	320	0.35	180
304	<0.05	6	321	0.45	185
305	<0.05	12	322	0.10	6
306	0.05	23	323	0.05	10
307	0.10	76	324	0.35	110
308	<0.05	5	342	0.50	72
309	0.15	64	343	0.20	15
310	0.20	64	344	0.40	12

EL 4457



Nord	Cu	Pb	Zn	Ag	Nord	Cu	Pb	Zn	Ag
EV 1	115	130	55	BLD	EV 27	60	30	20	BLD
2	35	45	20	BLD	28	90	50	20	
3	25	25	25	BLD	29	235	60	35	
4	30	10	35	BLD	30	130	75	55	
5	255	30	80	BLD	31	75	25	30	
6	80	35	40	BLD	32	110	35	25	
7	75	75	35	BLD	33	35	25	15	
8	70	70	30	BLD	34	110	50	40	
9	Not Located				35	100	40	35	
10	160	90	40	BLD	36	60	25	30	
11	Not Located				37	170	50	35	
12	Not Located				38	210	110	30	
13	Not Located				39	230	180	40	
14	Not Located				40	210	480	70	
15	210	55	20	BLD	41	190	380	50	
16	165	85	30	BLD	42	30	100	30	
17	130	25	45	BLD	43	145	1100	225	
18	135	35	55	BLD	44	50	60	30	
19	360	100	105	BLD	45	175	1100	200	
20	325	135	50	BLD	46	40	90	55	
21	340	100	35	BLD	47	30	40	40	
22	85	25	15	BLD	48	60	15	45	
23	75	25	15	BLD	58	50	25	35	
24	35	20	10	BLD					
25	20	20	10	BLD					
26	25	25	15	BLD					

Denehurst	Au ppm	Au ppb	Cu	Pb	Zn	Ag	As
25792BCL		117	220				
25793SS	<0.01		100	135	180		
25794BCL		5.00	30				
25795SS	<0.01		14	20	9		
25796BCL		16.6	130				
25797SS	0.05		40	30	17		
25798BCL		14.5	55				
25799SS	<0.01		18	30	10		

Billiton

5Kg N°	ALS ppb	AMDEL ppb	200qr N°
101	0.05	295	391
102	<0.05	115/27	389/390
103	35	6.5	386
104	70	47	387
105	30	2.6	388
106	10	1.40	385
107	20	0.80	384
108	20	1.55	383
109	6.30	3.65	392
110	35	2.55	393
111	30	1.80	394
112	10	1.85	396
113	10	0.95	395
114	0.05	3.5	398
115	7.20	—	397

Mag North

SCALE 1:20000

metres 500 0 500 1000 1500 metres

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LIMITED

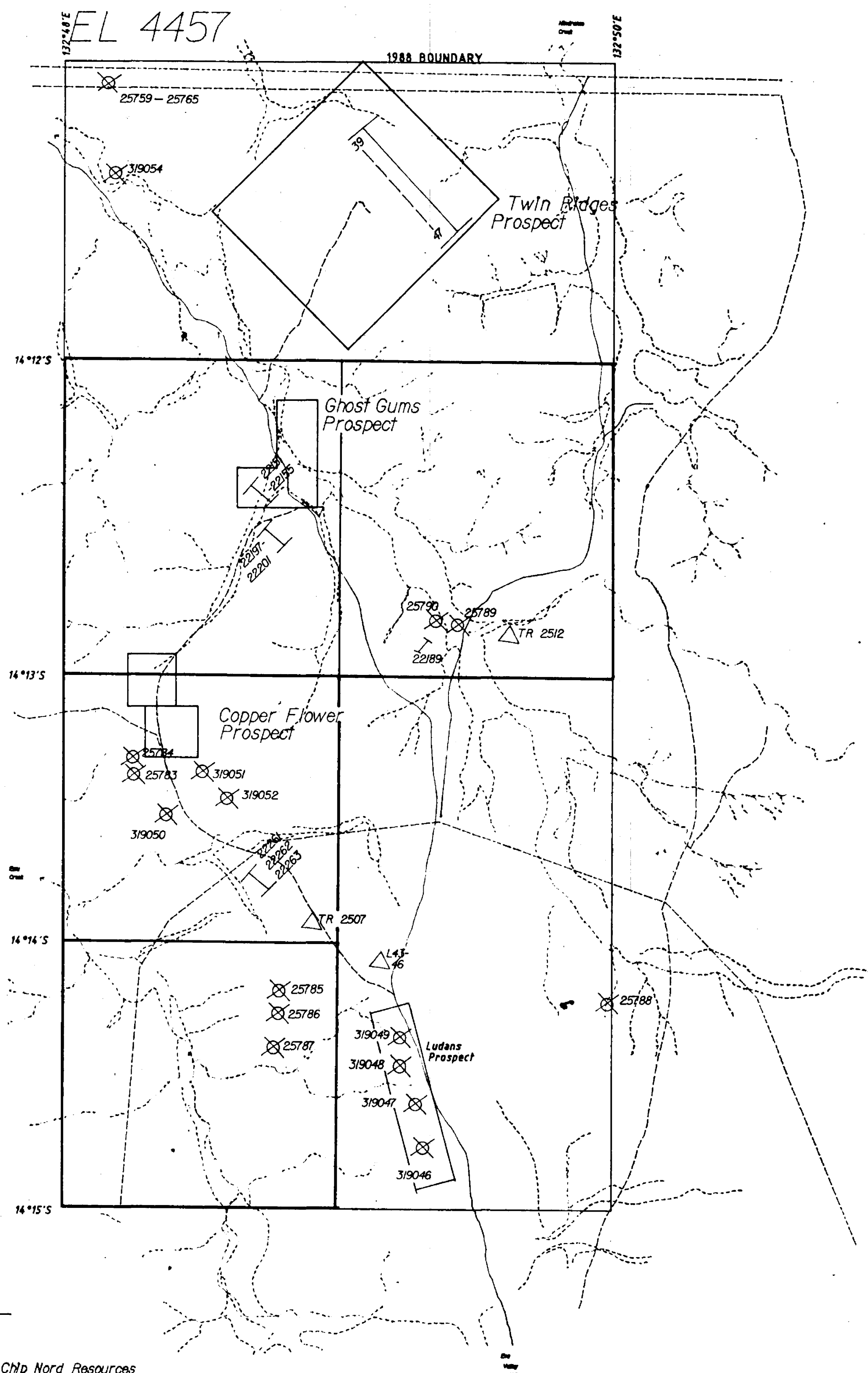
CR 90/442 C

E.L. 4457 Eva Valley, N.T.
Regional Stream Sediment Sample
Compilation: Location, Geochemistry

Author	Ken MacKillop	Drawn	AIRSEARCH MAPPING PTY. LTD.
Date	NOVEMBER 1988	Scale	1:20000
Plan No		Sheet	2

LEGEND

- NORD Stream Sediments
- ◇ BILLITON Bulk Cyanide leach Sample Number, 200qr Andel 5kg ALS
- △ Denehurst 25792 BCL Bulk cyanide leach 25793 SS -40° Stream Sediment



Sample Number	Remark	Au	Cu	Pb	Zn	Ag	As	Sn
22151	Nord	BLD						
152		BLD	300	35	25	BLD		
153		BLD	840	880	20	BLD		
154		BLD	8500	130	25	BLD		
155		BLD	785	2800	880	BLD		
189		BLD	3450	710	80	0.5		
197		BLD	55	850	135	1		
198		BLD	225	8200	35	1	15	
199		BLD	2300	300	100			100
200		BLD	400	8200	30			30
201		BLD	8400	230	225			330
261		BLD						
262		BLD						
263		BLD						
EV 39			230	80	40			
40			20	480	70			
41			80	380	30			
42			30	600	30			
43			145	820	225			
44			50	80	30			
45			175	820	820			
46			40	80	35			
47			30	40	40			
TR 2507	Pen Day P.L.	0.03	300					
TR 2512		0.28	4800					
L43		0.08	4300					
44		0.04	2575					
45		0.02	4000					
46		0.1	8000					
319046	Denehurst	BLD	880	72	15		220	44
47		BLD	335	57	5		38	34
48		0.05	880	130	50		600	80
49		0.04	280	880	80		2330	440
50		BLD	78	73	57		64	9
51		0.05	45	3	27		230	120
52		0.02	4	5	5		14	80
54		BLD	25	3	5		13	5
RC 25759		0.08	88	15	30		28	6
60		0.02	38	12	20		17	4
61		0.02	8	BLD	7		15	8
62		0.02	BLD	6			15	6
63		0.02	5	BLD	7		17	4
64		0.02	10	BLD	6		12	12
65		0.02	4	BLD	8		17	8
83		0.02	880	7	12		270	
84		0.04	22	12	17		14	
85		0.02	30	24	57		32	
86		0.02	135	13	80		28	
87		0.02	230	13	80		28	
88		BLD	32	88	22		17	
89		BLD	8540	440	80		130	
90		BLD	155	45	22		6	
91		BLD	235	400	52		22	

Mag North

SCALE 1:20000

metres 500 0 500 1000 1500 metres

PRODUCED BY AIRSEARCH MAPPING PTY. LTD.



denehurst
LIMITED

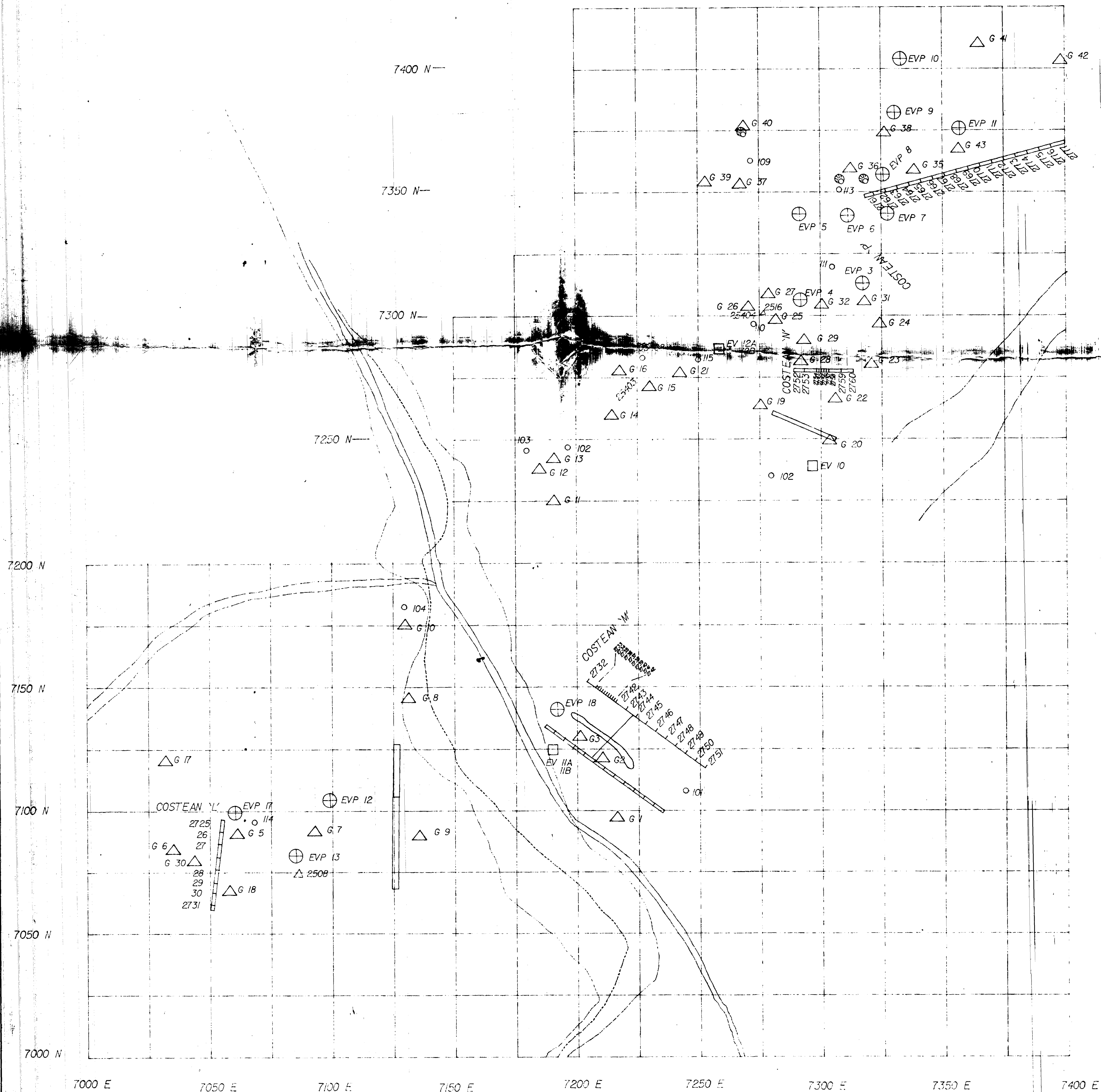
CR 90/442C

E.L. 4457 Eva Valley, N.T.
Regional Rock Chip Sample
Compilation: Location, Geochemistry

Author	Ken MackTop	Drawn	AIRSEARCH MAPPING PTY. LTD.
Date	NOVEMBER 1988	Scale	1:20000
Plan No		Sheet	3

LEGEND

- Rock Chip Nord Resources
- Rock Chip, Ken Day Pty Ltd.
- Rock Chip, Denehurst.



LEGEND

- Percussion Drill Hole Collar, Nord
- Rock Chip Sample, Newmont
- Rock Chip Sample, Ken Day P.L.
- Rock Chip Sample, Ken Day P.L.
- Rock Chip Sample, Geopeko
- Rock Chip Sample, Denehurst
- Costean Samples, Ken Day P.L.
- 5m Intervals
- 1m Intervals
- N.B. All samples prefixed by TR (TR2756)
- Prospect Plots, abandoned

LEGEND

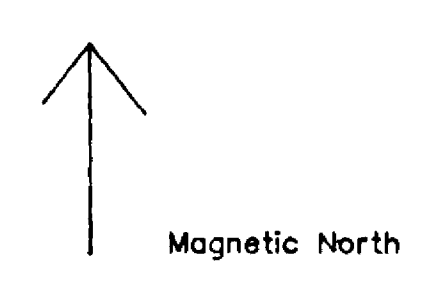
- costean, sample Intervals
- costean
- road
- track
- drainage

Sample Number	comment	Au	Cu	Pb	Zn	Ag	As	Bi
1	TR 2756	0.01	0.02					
2	TR 2756	0.01	0.02					
3	TR 2756	0.01	0.02					
4	TR 2756	0.01	0.02					
5	TR 2756	0.01	0.02					
6	TR 2756	0.01	0.02					
7	TR 2756	0.01	0.02					
8	TR 2756	0.01	0.02					
9	TR 2756	0.01	0.02					
10	TR 2756	0.01	0.02					
11	TR 2756	0.01	0.02					
12	TR 2756	0.01	0.02					
13	TR 2756	0.01	0.02					
14	TR 2756	0.01	0.02					
15	TR 2756	0.01	0.02					
16	TR 2756	0.01	0.02					
17	TR 2756	0.01	0.02					
18	TR 2756	0.01	0.02					
19	TR 2756	0.01	0.02					
20	TR 2756	0.01	0.02					
21	TR 2756	0.01	0.02					
22	TR 2756	0.01	0.02					
23	TR 2756	0.01	0.02					
24	TR 2756	0.01	0.02					
25	TR 2756	0.01	0.02					
26	TR 2756	0.01	0.02					
27	TR 2756	0.01	0.02					
28	TR 2756	0.01	0.02					
29	TR 2756	0.01	0.02					
30	TR 2756	0.01	0.02					
31	TR 2756	0.01	0.02					
32	TR 2756	0.01	0.02					
33	TR 2756	0.01	0.02					
34	TR 2756	0.01	0.02					
35	TR 2756	0.01	0.02					
36	TR 2756	0.01	0.02					
37	TR 2756	0.01	0.02					
38	TR 2756	0.01	0.02					
39	TR 2756	0.01	0.02					
40	TR 2756	0.01	0.02					
41	TR 2756	0.01	0.02					
42	TR 2756	0.01	0.02					

Sample Number	comment	Au	Cu	Pb	Zn	Ag	As	Bi
1	TR 2756	0.01	0.02					
2	TR 2756	0.01	0.02					
3	TR 2756	0.01	0.02					
4	TR 2756	0.01	0.02					
5	TR 2756	0.01	0.02					
6	TR 2756	0.01	0.02					
7	TR 2756	0.01	0.02					
8	TR 2756	0.01	0.02					
9	TR 2756	0.01	0.02					
10	TR 2756	0.01	0.02					
11	TR 2756	0.01	0.02					
12	TR 2756	0.01	0.02					
13	TR 2756	0.01	0.02					
14	TR 2756	0.01	0.02					
15	TR 2756	0.01	0.02					
16	TR 2756	0.01	0.02					
17	TR 2756	0.01	0.02					
18	TR 2756	0.01	0.02					
19	TR 2756	0.01	0.02					
20	TR 2756	0.01	0.02					
21	TR 2756	0.01	0.02					
22	TR 2756	0.01	0.02					
23	TR 2756	0.01	0.02					
24	TR 2756	0.01	0.02					
25	TR 2756	0.01	0.02					
26	TR 2756	0.01	0.02					
27	TR 2756	0.01	0.02					
28	TR 2756	0.01	0.02					
29	TR 2756	0.01	0.02					
30	TR 2756	0.01	0.02					
31	TR 2756	0.01	0.02					
32	TR 2756	0.01	0.02					
33	TR 2756	0.01	0.02					
34	TR 2756	0.01	0.02					
35	TR 2756	0.01	0.02					
36	TR 2756	0.01	0.02					
37	TR 2756	0.01	0.02					
38	TR 2756	0.01	0.02					
39	TR 2756	0.01	0.02					
40	TR 2756	0.01	0.02					
41	TR 2756	0.01	0.02					
42	TR 2756	0.01	0.02					

Sample Number	comment	Au	Cu	Pb	Zn	Ag	As	Bi
1	TR 2756	0.01	0.02					
2	TR 2756	0.01	0.02					
3	TR 2756	0.01	0.02					
4	TR 2756	0.01	0.02					
5	TR 2756	0.01	0.02					
6	TR 2756	0.01	0.02					
7	TR 2756	0.01	0.02					
8	TR 2756	0.01	0.02					
9	TR 2756	0.01	0.02					
10	TR 2756	0.01	0.02					
11	TR 2756	0.01	0.02					
12	TR 2756	0.01	0.02					
13	TR 2756	0.01	0.02					
14	TR 2756	0.01	0.02					
15	TR 2756	0.01	0.02					
16	TR 2756	0.01	0.02					
17	TR 2756	0.01	0.02					
18	TR 2756	0.01	0.02					
19	TR 2756	0.01	0.02					
20	TR 2756	0.01	0.02					
21	TR 2756	0.01	0.02					
22	TR 2756	0.01	0.02					
23	TR 2756	0.01	0.02					
24	TR 2756	0.01	0.02					
25	TR 2756	0.01	0.02					
26	TR 2756	0.01	0.02					
27	TR 2756	0.01	0.02					
28	TR 2756	0.01	0.02					
29	TR 2756	0.01	0.02					
30	TR 2756	0.01	0.02					
31	TR 2756	0.01	0.02					
32	TR 2756	0.01	0.02					
33	TR 2756	0.01	0.02					
34	TR 2756	0.01	0.02					
35	TR 2756	0.01	0.02					
36	TR 2756	0.01	0.02					
37	TR 2756	0.01	0.02					
38	TR 2756	0.01	0.02					
39	TR 2756	0.01	0.02					
40	TR 2756	0.01	0.02					
41	TR 2756	0.01	0.02					
42	TR 2756	0.01	0.02					

Sample Number	comment	Au	Cu	Pb	Zn	Ag	As	Bi
1	TR 2756	0.01	0.02					
2	TR 2756	0.01	0.02					
3	TR 2756	0.01	0.02					
4	TR 2756	0.01	0.02					
5	TR 2756	0.01	0.02					
6	TR 2756	0.01	0.02					
7	TR 2756	0.01	0.02					
8	TR 2756	0.01	0.02					
9	TR 2756	0.01	0.02					
10	TR 2756	0.01	0.02					
11	TR 2756	0.01	0.02					
12	TR 2756	0.01	0.02					
13	TR 2756	0.01	0.02					
14	TR 2756	0.01	0.02					
15	TR 2756	0.01	0.02					
16	TR 2756	0.01	0.02					
17	TR 2756	0.01	0.02					
18	TR 2756	0.01	0.02					
19	TR 2756	0.01	0.02					
20	TR 2756	0.01	0.02					
21	TR 2756	0.01	0.02					
22	TR 2756	0.01	0.02					
23	TR 2756	0.01	0.02					
24	TR 2756	0.01	0.02					
25	TR 2756	0.01	0.02					
26	TR 2756	0.01	0.02					
27	TR 2756	0.01	0.02					
28	TR 2756	0.01	0.02					
29	TR 2756	0.01	0.02					
30	TR 2756	0.01	0.02					
31	TR 2756	0.01	0.02					
32	TR 2756	0.01	0.02					
33	TR 2756	0.01	0.02					
34	TR 2756	0.01	0.02					
35	TR 2756	0.01	0.02					
36	TR 2756	0.01	0.02					
37	TR 2756	0.01	0.02					
38	TR 2756	0.01	0.02					
39	TR 2756	0.01	0.02					
40	TR 2756	0.01	0.02					
41	TR 2756	0.01	0.02					
42	TR 2756	0.01	0.02					



SCALE 1:750

PRODUCED BY AIRSEARCH MAPPING PTY. LTD.

denehurst
LIMITED

CR 90/442C

GHOST GUMS PROSPECT
ROCK CHIP SAMPLE COMPIATION
LOCATION AND GEOCHEMISTRY

Author: Ken MacKinnon
Date: NOVEMBER 1988
Scale: 1:750
Plan No: Sheet

Drawn: AIRSEARCH MAPPING PTY. LTD.

EL 4457

1988 BOUNDARY

14°12'S

14°13'S

14°14'S

14°15'S

132°48'E

132°49'E

132°50'E

LEGEND

AEROMAGNETICS



inferred faults, fractures



inferred subsurface features

GEOFLITE



inferred faults, fractures



inferred prospective zones

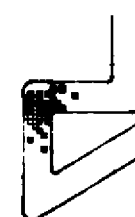


Mag North

SCALE 1:20000

metres 500 0 500 1000 1500 2000 2500 metres

PRODUCED BY AIRSEARCH MAPPING PTY. LTD.

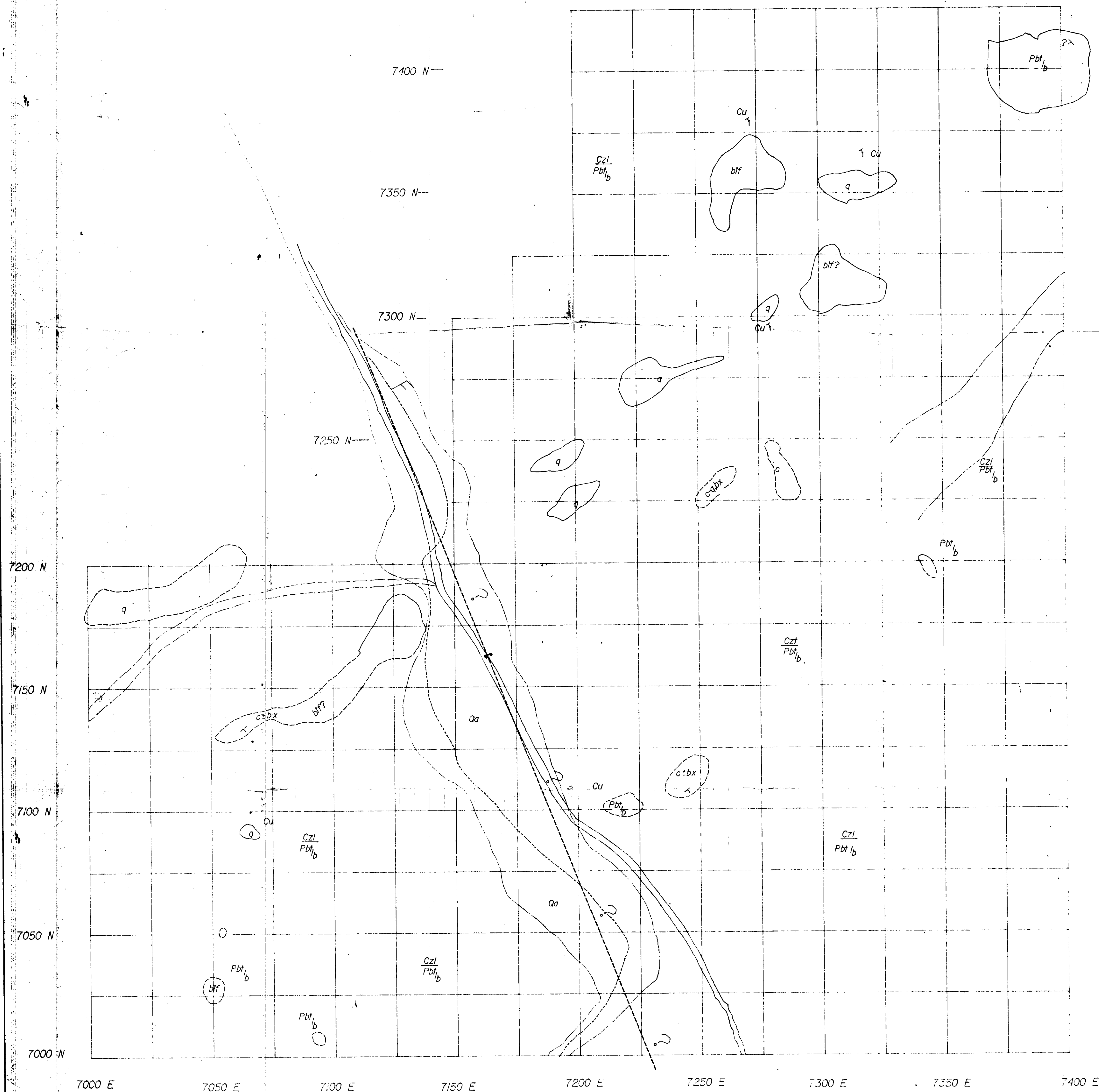


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CR 90/442C

E.L. 4457 Eva Valley, N.T.
GEOFLITE and AEROMAGNETIC SURVEYS
INTERPRETATION COMPILATION

Author	Ken MacKillop	Drawn	AIRSEARCH MAPPING PTY. LTD.
Date	NOVEMBER 1988	Scale	1:20000
Plan No		Sheet	5

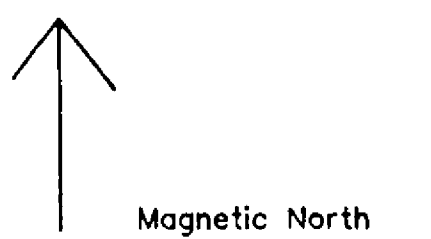


REFERENCE

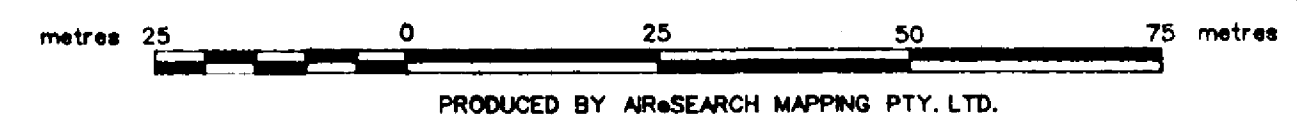
Quaternary	Qa	alluvium deposit, sand, silt, gravel, dark grey clay soil
Cainozoic	Czs	Residual sand and silt
	Czl	Pisolitic laterite and ferruginous rubble, pebble surface
	Czv	Basalt, basaltic conglomerate
Early Proterozoic	Pbh	Hindrance Creek Sandstone, massive medium grained feldspathic and micaceous sandstone
	Pag	Eva Valley Granite, porphyritic biotite leucogranite
	gr	biotite adamellite, minor xenolithic biotite leucogranite with quartz + greisen veins
	Pdm	Maud Dolerite, meta-dolerite, amphibolite
	Pbt	Tullis Formation
	Pbt1	very thin to medium bedded micaceous shales, siltstone, fine to medium grained sandstone
	Pbt2	chloritic argillites, basaltic dolerite, siliceous dark green meta-tuffs, minor chert and acid volcanics, silica-haematite to jasperite to banded iron formation exhalites (bif), rare tourmaline and barite bearing exhalites
	Pbt3	grey to mauve shale, tan siltstone and grey fine to medium grained micaceous sandstone-arkose.

LEGEND

	costean sample intervals
	costean
	road
	track
	drainage



SCALE 1:750



denehurst
LIMITED

CR 90/442 C

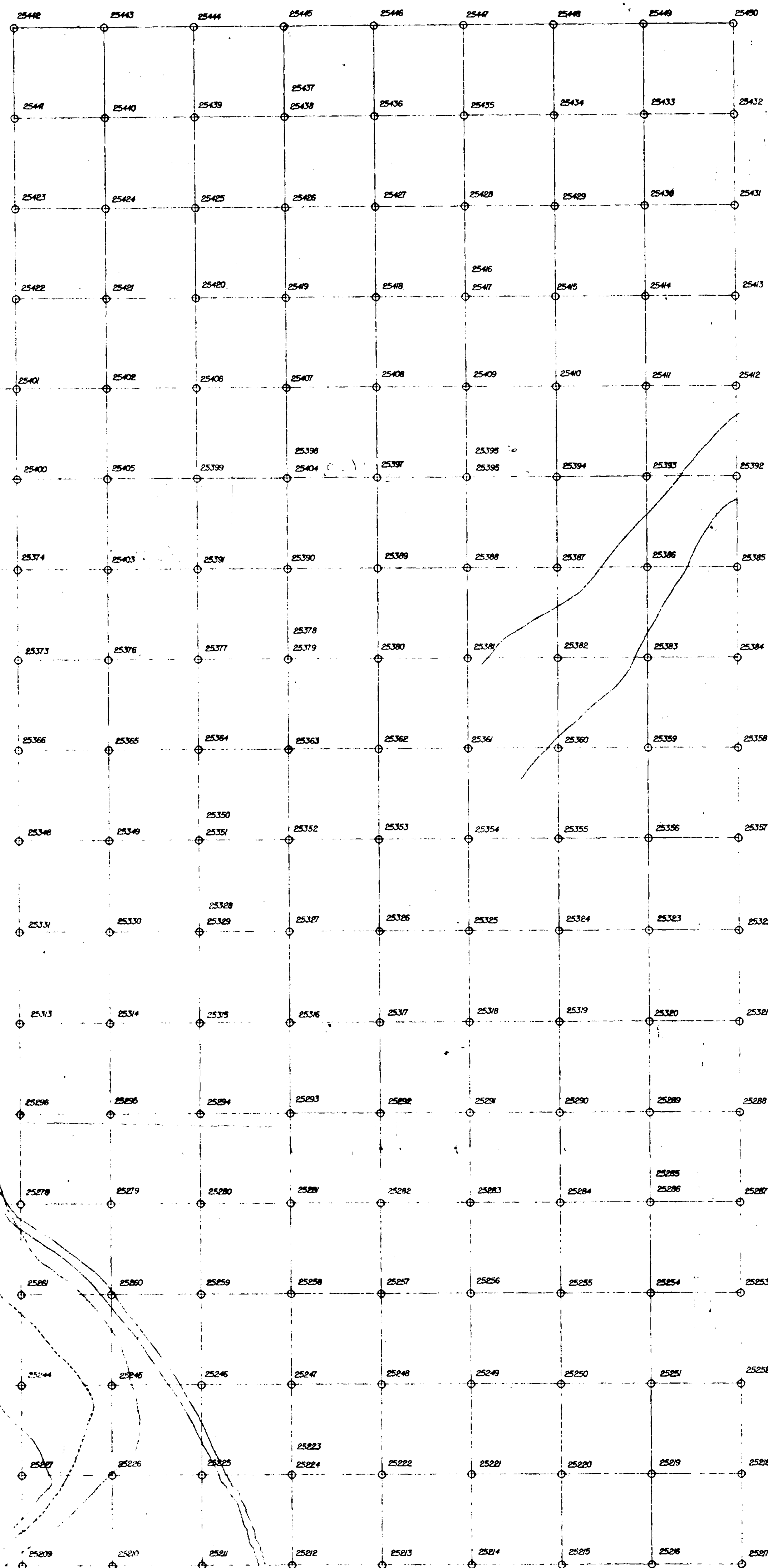
GHOST GUMS PROSPECT
BEDROCK GEOLOGY

Author	Ken Mackillop	Drawn	AIRSEARCH MAPPING PTY. LTD.
Date	NOVEMBER 1988	Scale	1:750
Plan No		Sheet	6



7400 N

7300 W



LEGEND

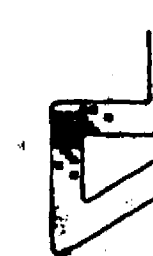
- coastline sample intervals
- coastline
- road
- track
- drainage



SCALE 1:750

metres 25 0 25 50 75

PRODUCED BY APSEARCH MAPPING PTY. LTD.



denehurst
LIMITED

CR 90/442C

GHOST GUMS PROSPECT
BEDROCK SAMPLE LOCATIONS

Author	Ken MacKillop	Drawn	APSEARCH MAPPING
Date	NOVEMBER 1988	Scale	1:750
Plan No		Sheet	7

7400 N

7350 N

7300 N

7250 N

7200 N

7150 N

7100 N

7050 N

7000 N

7000 E

7050 E

7100 E

7150 E

7200 E

7250 E

7300 E

7350 E

7400 E

LEGEND

-

REFERENCE

- Au As Sample values,
 Ag ppm, percent where
 applicable.
 < - Below Limits of detection
 Gold 0.01 ppm
 Arsenic 2 ppm
 Silver 1 ppm
 ⬢ abandoned hole, no sample

Magnetic North

SCALE 1:1000

metres 25 0 25 50 75

PRODUCED BY ARESEARCH MAPPING PTY. LTD.

denehurst
LIMITED

CR90/442C

GHOST GUMS PROSPECT
 BEDROCK GEOCHEMISTRY
 Au, As, Ag

Author	Ken MacKillop	Drawn	ARESEARCH MAPPING PTY. LTD.
Date	NOVEMBER 1988	Scale	1:1000
Plan No		Sheet	8

7400 N

7350 N

7300 N

7250 N

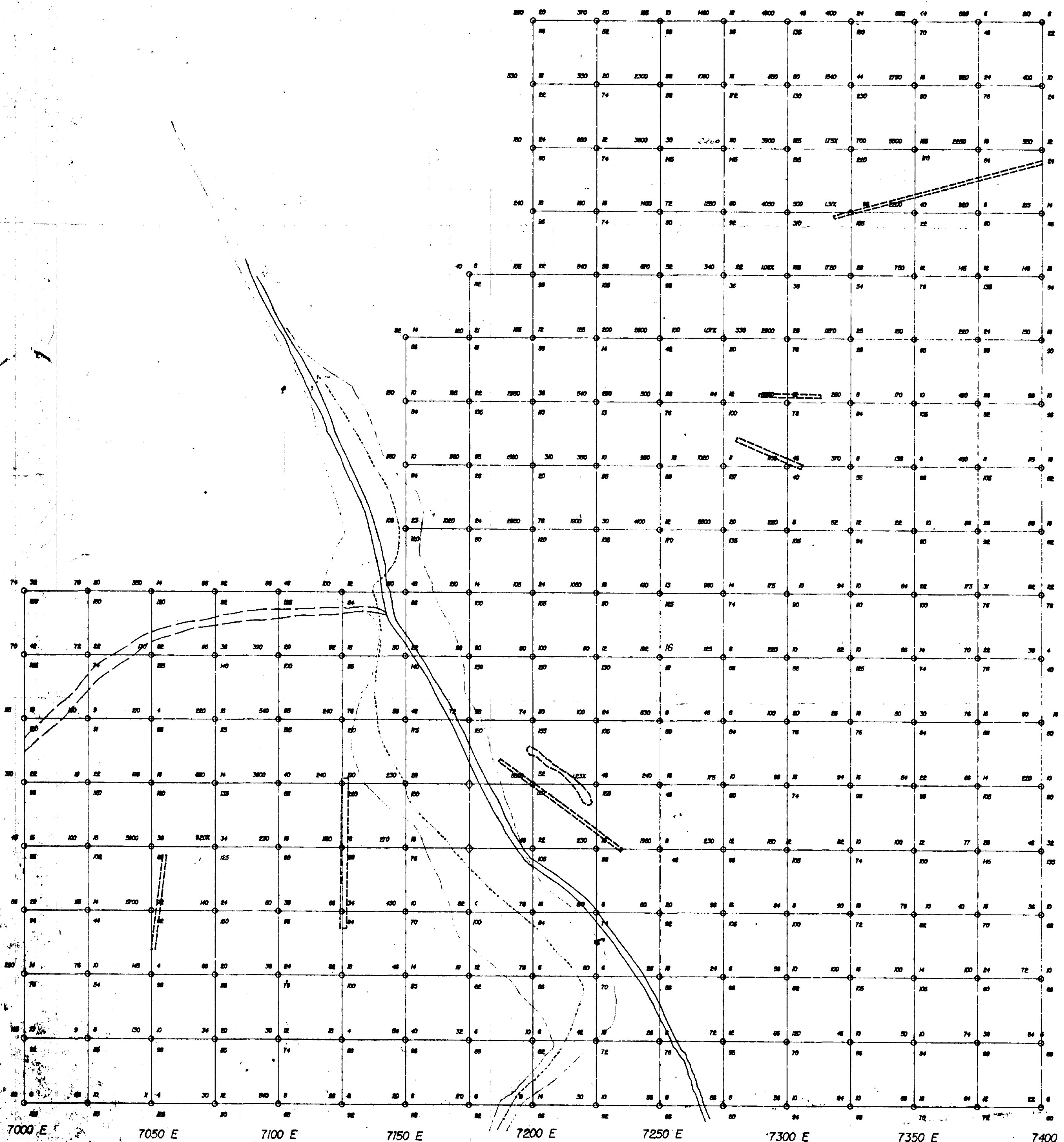
7200 N

7150 N

7100 N

7050 N

7000 N



LEGEND

- coastline (rehabilitated)
- road
- track
- drainage
- abandoned hole, no sample

REFERENCE

Cu	Pb
Zn	

Sample values,
ppm, percent where
applicable.

< - Below Limits of detection

Copper 2 ppm

Lead 5 ppm

Zinc 2 ppm

◇ abandoned hole, no sample

↑
Magnetic North

SCALE 1:1000

metres 25 0 25 50 75 metres
PRODUCED BY AIRSEARCH MAPPING PTY. LTD.



donohurst
LIMITED

CR 90/442 C

GHOST GUMS PROSPECT
BEDROCK GEOCHEMISTRY
Cu, Pb, Zn

Author	Ken MackBop	Drawn	AIRSEARCH MAPPING PTY. LTD.
Date	NOVEMBER 1988	Scale	1:1000
Plan No		Sheet	9

AREA OF MINERAL CLAIM APPLICATIONS

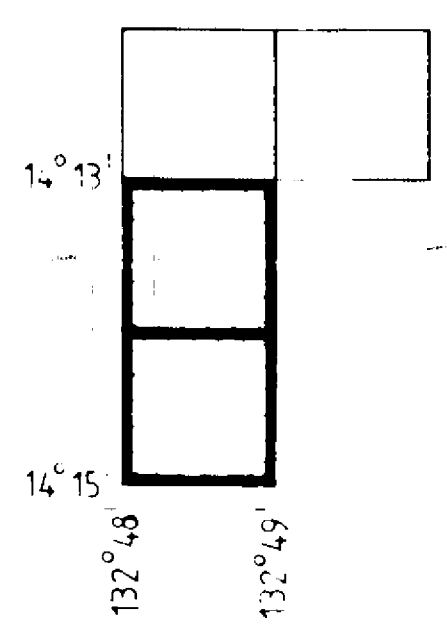
LITHOLOGY:

- Qa : ALLUVIUM, SANDS, GRAVELS, DARK GREY CLAY SOIL.
- Cz : RESIDUAL SANDS AND SOILS, WEAK LATERITE PEBBLE SURFACE.
- Pdm : MANDIOLITE - META MANDIOLITE.
- Pb+1-a : INTERBEDDED GREYWACKE, SLTSTONES AND SHALE.
- Pb+1-b : BASIC VOLCANICS, INTERCOLATED.
- BIF : Banded IRON FORMATION

REFERENCE:

- 70° 15' BEDDING, STRIKE AND DIP
- 15° 70° QUARTZ VEINING, STRIKE AND DIP
- 15° 70° PLUNGING ANTIFORM, AXIAL PLANE STRIKE AND DIP
- JOINTING, FRACTURING, STRIKE AND DIP
- FRACTURE FILL POOLS.
- hem-sil 6m. HEMATITIC SILICA, MAXIMUM WIDTH.
- q, bx. BRECCIA, QUARTZ FILL.
- Prospect ABANDONED, COPPER.
- Shaft ABANDONED, COPPER.
- SHR. SHEAR.
- PHOTO LINEAR.

LOCATION MAP EL. 4457



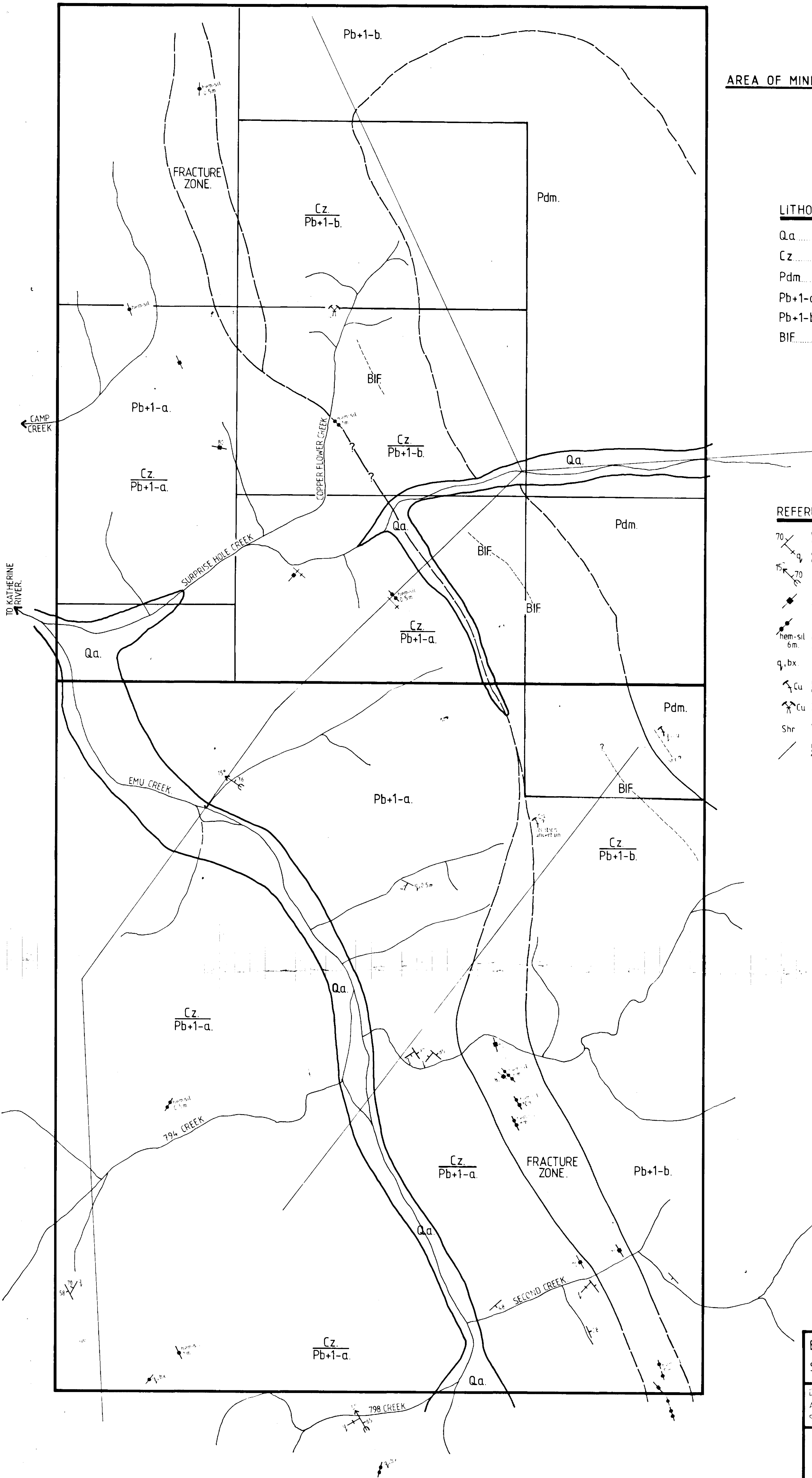
TN.

MAG. DEVIATION
1985 APPROX. 4° E

EVA VALLEY, EL. 4457.
SOUTH WESTERN CORNER.

DRAWN : A. THORP
A. THORP : A. THORP
SCALE : 1:5000
DATE : APRIL 89
SHEET : 10

CR 90 442C
denehurst
LIMITED



TO GHOST GUMS.

SOIL GEOCHEMISTRY.

SAMPLE MARK:	Au.	Cu.	Pb.	Zn.
SO 25824	<0.01	260	17	15
SO 25825	<0.01	355	23	26
SO 25826	<0.01	215	17	27
SO 25827	<0.01	215	15	13
SO 25828	<0.01	150	17	29
SO 25829	<0.01	86	13	9
SO 25830	<0.01	37	12	5
SO 25831	<0.01	31	14	5
SO 25833	<0.01	1220	24	22
SO 25834	<0.01	270	20	12
SO 25835	<0.01	190	23	12
SO 25836	<0.01	65	17	8
SO 25837	<0.01	230	22	8
SO 25838	0.09	300	14	10
SO 25839	0.03	215	10	4
SO 25840	<0.01	30	130	3
SO 25841	<0.01	21	130	12
SO 25842	<0.01	15	14	3
SO 25843	0.03	16	12	4
SO 25844	<0.01	39	6	3
SO 25845	0.05	34	13	8
SO 25846	<0.01	51	8	5
SO 25847	0.07	90	17	5
SO 25848	<0.01	145	12	7
SO 25849	<0.01	195	10	52
SO 25850	<0.01	305	53	2
SO 25851	<0.01	240	8	6
SO 25852	<0.01	295	7	2
SO 25853	0.01	120	6	3
SO 25854	0.02	44	7	2
SO 25855	<0.01	47	6	5
SO 25856	<0.01	28	45	2
SO 25857	0.05	13	45	3
SO 25858	0.07	12	11	4
SO 25859	<0.01	11	7	5
SO 25860	<0.01	51	16	3
SO 25861	<0.01	92	15	2
SO 25862	<0.01	70	10	2
SO 25863	0.03	195	8	4
SO 25864	0.01	54	7	2
SO 25865	0.04	130	10	5
SO 25866	0.05	68	8	2
SO 25867	0.01	30	11	6

STREAM SAMPLE GEOCHEMISTRY.

SAMPLE MARK:	Au.	Cu.	Pb.	Zn.	As.
BCL 25792		11.7	220		
BCL 25794		5.0	30		
BCL 25796		16.6	130		
BCL 25798		14.5	55		
BCL 25849		0.36	94		
BCL 25852		0.31	175		
BCL 25855		0.36	22		
BCL 25858		0.20	24		
BCL 25861		0.50	260		
BCL 25862		0.51	205		
BCL 25865		1.32	195		
BCL 25869		0.59	145		
BCL 25892		0.51	165		
SS 25793	<0.01		100	135	180
SS 25795	<0.01		14	20	9
SS 25797	0.05		40	30	17
SS 25799	<0.01		59	13	10
SS 25851	0.02		120	37	14
SS 25854	<0.01		29	41	6
SS 25857	0.03		24	9	2
SS 25860	0.03		220	32	45
SS 25864	0.06		215	69	48
SS 25891	<0.01		140	39	27
PC 25850	<0.01		66	30	330
PC 25853	<0.01		65	38	415
PC 25856	<0.01		22	22	160
PC 25859	<0.01		35	18	120
PC 25863	<0.01		93	49	235
PC 25866	<0.01		155	77	140

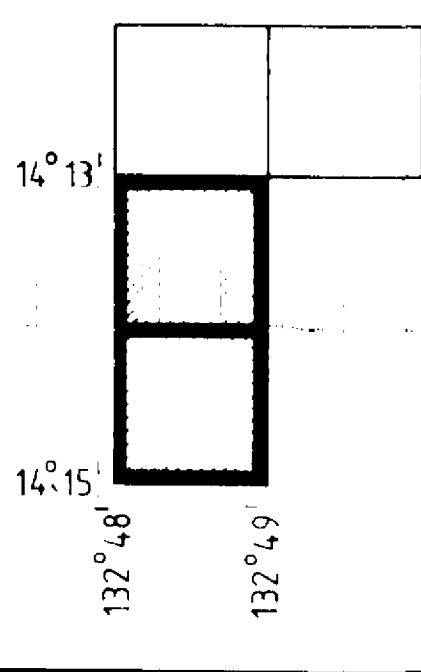
ROCK SAMPLE GEOCHEMISTRY.

SAMPLE MARK:	Au.	Cu.	Pb.	Zn.	As.
RC 25783	0.10	820	7	29	270
RC 25784	0.14	22	12	11	14
RC 25785	0.09	50	94	21	32
RC 25786	0.10	135	45	20	26
RC 25787	0.10	220	45	20	26
RC 25801A	<0.01	31	24	9	24
RC 25801B	<0.01	50	15	10	94
RC 25802	<0.01	80	12	5	190
RC 25803	<0.01	39	13	17	62
RC 25804	0.01	44	11	5	17
RC 25805	<0.01	355	460	450	670
RC 25806	<0.01	61	64	8	26
RC 25807	<0.01	760	18	28	92
RC 25808	<0.01	39	45	2	22
RC 25809	<0.01	130	6	8	13
RC 25810	<0.01	340	120	125	78
RC 25811	<0.01	205	9	33	10
RC 25812	0.02	28	34	14	320
RC 25813	<0.01	880	15	24	94
RC 25814	<0.01	240	9	8	145
RC 25815	<0.01	155	45	5	64
RC 25816	0.01	300	6	4	28
RC 25817	0.01	35	7	18	11
RC 25818	<0.01	16	15	36	10
RC 25819	<0.01	31	5	4	30
RC 25820	<0.01	14	9	9	26
RC 25821	<0.01	27	11	9	26
RC 25822	<0.01	265	235	18	78
RC 25823	<0.01	335	18	8	
RC 25832	<0.01	680	45	17	
RC 25848	<0.01	285	500	115	
RC 25876	<0.01	86	10	2	

AREA OF MINERAL CLAIM APPLICATIONS

LOCATION MAP.

EL. 4457.



T.N.

MAG. DEVIATION:
1989 APPROX. 4° E.

EVA VALLEY. EL. 4457.
SOUTH WESTERN CORNER.
GEOCHEMICAL SAMPLING LOCATION
AND RESULTS.

DRAWN : HARRY HAY.
AUTHOR : MEN MACMILLAN
SCALE : APPROX. 1:5000.
DATE : APRIL '89
SHEET : II

denehurst
LIMITED
CR 90/442C

REFERENCE:

RC 25802 X ROCK CHIP SAMPLE:
RC.....: ROCK CHIP, OUTCROP.
RF.....: STREAM FLOAT.
BCL.....: BULK CYANIDE LEACH SAMPLE, x 5 lbs. MINUS 3-25mm.
PC.....: PANNEO HEAVY MINERAL CONCENTRATE.
SS.....: STREAM SEDIMENT, MINUS 80 MESH.
[BCL].....: SAMPLED 1988 PROGRAM.
[RC].....: SOIL SAMPLE, AUGERED.

(APPROX) X RC 25819

(APPROX) X RC 25820

(APPROX) X RC 25832.
25823.

BCL 25848
PC 25850
SS 25851

CAMP
CREEK.

TO KATHERINE
RIVER.

EMU CREEK

(APPROX) X RC 25821

794 CREEK

SO 25842
SO 25841
SO 25840

[X] RC 25785

[X] RC 25786

[X] RC 25787

[X] RC 25822

[X] RC 25814

[X] RC 25815

[X] RC 25816

[X] RC 25817

[X] RC 25818

[X] RC 25819

[X] RC 25820

[X] RC 25821

[X] RC 25822

[X] RC 25823

[X] RC 25824

[X] RC 25825

[X] RC 25826

[X] RC 25827

[X] RC 25828

[X] RC 25829

[X] RC 25830

[X] RC 25831

[X] RC 25833

[X] RC 25834

[X] RC 25835

[X] RC 25836

[X] RC 25837

[X] RC 25838

[X] RC 25839

[X] RC 25840

[X] RC 25841

[X] RC 25842

[X] RC 25843

[X] RC 25844

[X] RC 25845

[X] RC 25846

[X] RC 25847

[X] RC 25848

[X] RC 25849

[X] RC 25850

[X] RC 25851

[X] RC 25852

[X] RC 25853

[X] RC 25854

[X] RC 25855

[X] RC 25856

[X] RC 25857

[X] RC 25858

[X] RC 25859

[X] RC 25860

[X] RC 25861

[X] RC 25862

[X] RC 25863

[X] RC 25864

[X] RC 25865

[X] RC 25866

[X] RC 25867

[X] RC 25868

[X] RC 25869

[X] RC 25870

[X] RC 25871

[X] RC 25872

[X] RC 25873

[X] RC 25874

[X] RC 25875

[X] RC 25876

[X] RC 25877

[X] RC 25878

[X] RC 25879

[X] RC 25880

[X] RC 25881

[X] RC 25882

[X] RC 25883

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[X] RC 25892

[X] RC 25893

[X] RC 25894

[X] RC 25895

[X] RC 25896

[X] RC 25897

[X] RC 25898

[X] RC 25899

[X] RC 25900

[X] RC 25901

[X] RC 25902

[X] RC 25903

[X] RC 25904

[X] RC 25905

[X] RC 25906

[X] RC 25907

[X] RC 25908

[X] RC 25909

[X] RC 25910

[X] RC 25911

[X] RC 25912

[X] RC 25913

[X] RC 25914

[X] RC 25915

[X] RC 25916

[X] RC 25917

[X] RC 25918

[X] RC 25919

[X] RC 25920

[X] RC 25921

[X] RC 25922

7400 N.

7375 N

7350 N

7325 N

7300 N.

7250 E

7275 E

7300 E

7325 E

7350 E

7375 E

GGRC1.

GGRC2.

GGRC3.

GGRC4.

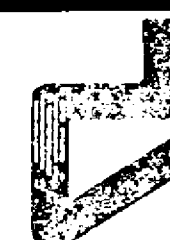
GGRC5.

GGRC6.

5 0 5 10 15 20metres
SCALE 1:250

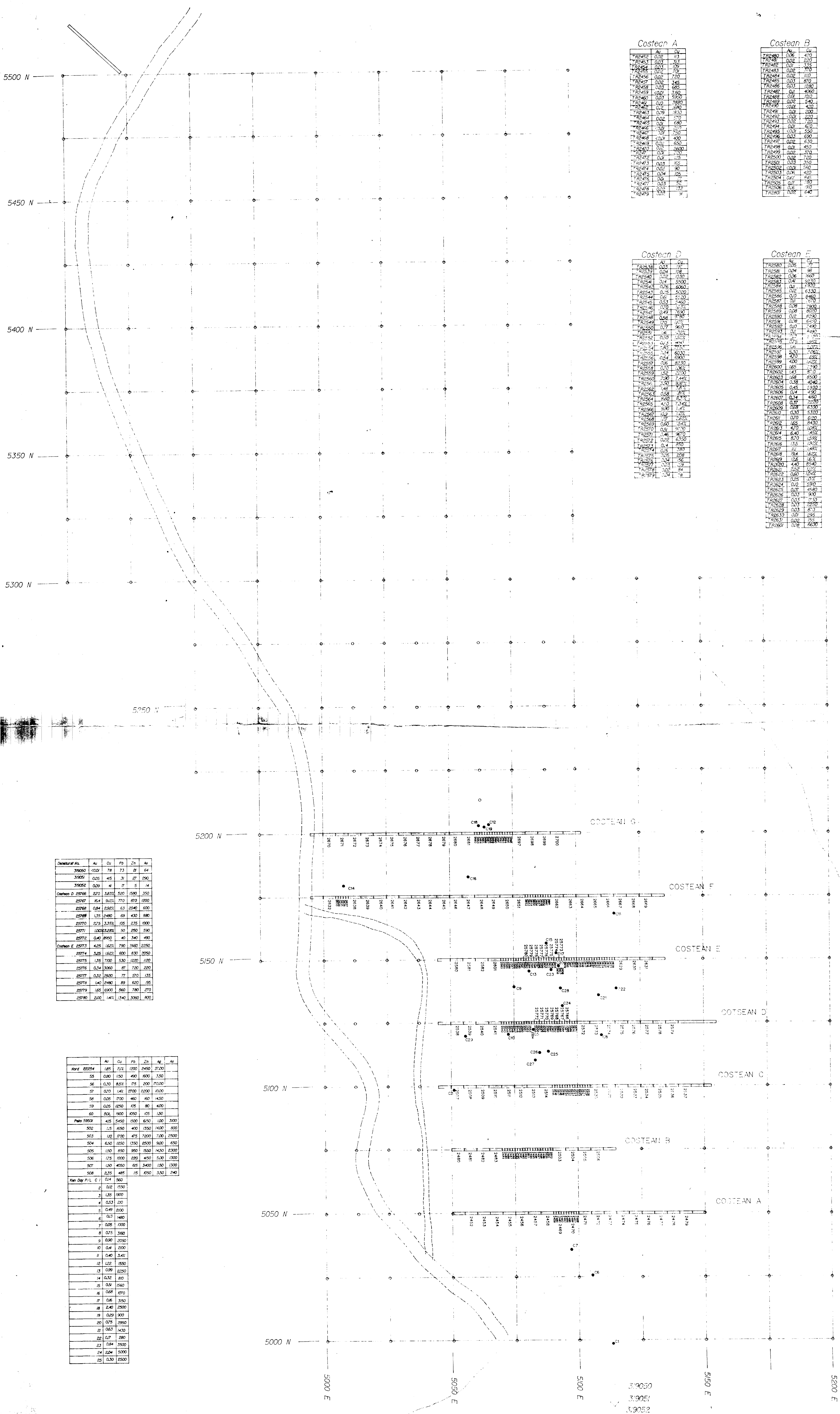
LEGEND:

○
COLLAR
LOCATION
ANGLED R.C. DRILLHOLE.
HORIZONTAL
PROJECTION
OF HOLE

 denehurst
LIMITED
CR 901412C

EVA VALLEY EL.4457.
GHOST GUMS PROSPECT.
DRILLHOLE COLLAR LOCATIONS.

DATE: JULY '89	SCALE: 1:250	PLAN NO
PREPARED: A. LOHAN	DRAWN: H. HAY	SHEET NO 12



Costean A			
TR	AL	CU	CH
TR240	0.02	0.3	0.1
TR241	0.02	0.3	0.1
TR242	0.02	0.3	0.1
TR243	0.02	0.3	0.1
TR244	0.02	0.3	0.1
TR245	0.02	0.3	0.1
TR246	0.02	0.3	0.1
TR247	0.02	0.3	0.1
TR248	0.02	0.3	0.1
TR249	0.02	0.3	0.1
TR250	0.02	0.3	0.1
TR251	0.02	0.3	0.1
TR252	0.02	0.3	0.1
TR253	0.02	0.3	0.1
TR254	0.02	0.3	0.1
TR255	0.02	0.3	0.1
TR256	0.02	0.3	0.1
TR257	0.02	0.3	0.1
TR258	0.02	0.3	0.1
TR259	0.02	0.3	0.1
TR260	0.02	0.3	0.1

Costean B			
TR	AL	CU	CH
TR261	0.02	0.3	0.1
TR262	0.02	0.3	0.1
TR263	0.02	0.3	0.1
TR264	0.02	0.3	0.1
TR265	0.02	0.3	0.1
TR266	0.02	0.3	0.1
TR267	0.02	0.3	0.1
TR268	0.02	0.3	0.1
TR269	0.02	0.3	0.1
TR270	0.02	0.3	0.1
TR271	0.02	0.3	0.1
TR272	0.02	0.3	0.1
TR273	0.02	0.3	0.1
TR274	0.02	0.3	0.1
TR275	0.02	0.3	0.1
TR276	0.02	0.3	0.1
TR277	0.02	0.3	0.1
TR278	0.02	0.3	0.1
TR279	0.02	0.3	0.1
TR280	0.02	0.3	0.1

Costean C			
TR	AL	CU	CH
TR281	0.02	0.3	0.1
TR282	0.02	0.3	0.1
TR283	0.02	0.3	0.1
TR284	0.02	0.3	0.1
TR285	0.02	0.3	0.1
TR286	0.02	0.3	0.1
TR287	0.02	0.3	0.1
TR288	0.02	0.3	0.1
TR289	0.02	0.3	0.1
TR290	0.02	0.3	0.1
TR291	0.02	0.3	0.1
TR292	0.02	0.3	0.1
TR293	0.02	0.3	0.1
TR294	0.02	0.3	0.1
TR295	0.02	0.3	0.1
TR296	0.02	0.3	0.1
TR297	0.02	0.3	0.1
TR298	0.02	0.3	0.1
TR299	0.02	0.3	0.1
TR300	0.02	0.3	0.1

Costean D			
TR	AL	CU	CH
TR301	0.02	0.3	0.1
TR302	0.02	0.3	0.1
TR303	0.02	0.3	0.1
TR304	0.02	0.3	0.1
TR305	0.02	0.3	0.1
TR306	0.02	0.3	0.1
TR307	0.02	0.3	0.1
TR308	0.02	0.3	0.1
TR309	0.02	0.3	0.1
TR310	0.02	0.3	0.1
TR311	0.02	0.3	0.1
TR312	0.02	0.3	0.1
TR313	0.02	0.3	0.1
TR314	0.02	0.3	0.1
TR315	0.02	0.3	0.1
TR316	0.02	0.3	0.1
TR317	0.02	0.3	0.1
TR318	0.02	0.3	0.1
TR319	0.02	0.3	0.1
TR320	0.02	0.3	0.1

Costean E			
TR	AL	CU	CH
TR321	0.02	0.3	0.1
TR322	0.02	0.3	0.1
TR323	0.02	0.3	0.1
TR324	0.02	0.3	0.1
TR325	0.02	0.3	0.1
TR326	0.02	0.3	0.1
TR327	0.02	0.3	0.1
TR328	0.02	0.3	0.1
TR329	0.02	0.3	0.1
TR330	0.02	0.3	0.1
TR331	0.02	0.3	0.1
TR332	0.02	0.3	0.1
TR333	0.02	0.3	0.1
TR334	0.02	0.3	0.1
TR335	0.02	0.3	0.1
TR336	0.02	0.3	0.1
TR337	0.02	0.3	0.1
TR338	0.02	0.3	0.1
TR339	0.02	0.3	0.1
TR340	0.02	0.3	0.1

Costean F			
TR	AL	CU	CH
TR341	0.02	0.3	0.1
TR342	0.02	0.3	0.1
TR343	0.02	0.3	0.1
TR344	0.02	0.3	0.1
TR345	0.02	0.3	0.1
TR346	0.02	0.3	0.1
TR347	0.02	0.3	0.1
TR348	0.02	0.3	0.1
TR349	0.02	0.3	0.1
TR350	0.02	0.3	0.1
TR351	0.02	0.3	0.1
TR352	0.02	0.3	0.1
TR353	0.02	0.3	0.1
TR354	0.02	0.3	0.1
TR355	0.02	0.3	0.1
TR356	0.02	0.3	0.1
TR357	0.02	0.3	0.1
TR358	0.02	0.3	0.1
TR359	0.02	0.3	0.1
TR360	0.02	0.3	0.1

Costean G			
TR	AL	CU	CH
TR361	0.02	0.3	0.1
TR362	0.02	0.3	0.1
TR363	0.02	0.3	0.1
TR364	0.02	0.3	0.1
TR365	0.02	0.3	0.1
TR366	0.02	0.3	0.1
TR367	0.02	0.3	0.1
TR368	0.02	0.3	0.1
TR369	0.02	0.3	0.1
TR370	0.02	0.3	0.1
TR371	0.02	0.3	0.1
TR372	0.02	0.3	0.1
TR373	0.02	0.3	0.1
TR374	0.02	0.3	0.1
TR375	0.02	0.3	0.1
TR376	0.02	0.3	0.1
TR377	0.02	0.3	0.1
TR378	0.02	0.3	0.1
TR379	0.02	0.3	0.1
TR380	0.02	0.3	0.1

Denehurst No.			
AL	CU	CH	AS
39050	0.02	0.3	0.1
39051	0.02	0.3	0.1
39052	0.02	0.3	0.1
39053	0.02	0.3	0.1
39054	0.02	0.3	0.1
39055	0.02	0.3	0.1
39056	0.02	0.3	0.1
39057	0.02	0.3	0.1
39058	0.02	0.3	0.1
39059	0.02	0.3	0.1
39060	0.02	0.3	0.1
39061	0.02	0.3	0.1
39062	0.02	0.3	0.1
39063	0.02	0.3	0.1
39064	0.02	0.3	0.1
39065	0.02	0.3	0.1
39066	0.02	0.3	0.1
39067	0.02	0.3	0.1
39068	0.02	0.3	0.1
39069	0.02	0.3	0.1
39070	0.02	0.3	0.1

Ken Day P/L C			
AL	CU	CH	AS
1.01	0.02	0.3	0.1
1.02	0.02	0.3	0.1
1.03	0.02	0.3	0.1
1.04	0.02	0.3	0.1
1.05	0.02	0.3	0.1
1.06	0.02	0.3	0.1
1.07	0.02	0.3	0.1
1.08	0.02	0.3	0.1
1.09	0.02	0.3	0.1
1.10	0.02	0.3	0.1
1.11	0.02	0.3	0.1
1.12	0.02	0.3	0.1
1.13	0.02	0.3	0.1
1.14	0.02	0.3	0.1
1.15	0.02	0.3	0.1
1.16	0.02	0.3	0.1
1.17	0.02	0.3	0.1
1.18	0.02	0.3	0.1
1.19	0.02	0.3	0.1
1.20	0.02	0.3	0.1
1.21	0.02	0.3	0.1
1.22	0.02	0.3	0.1
1.23	0.02	0.3	0.1
1.24	0.02	0.3	0.1
1.25	0.02	0.3	0.1
1.26	0.02	0.3	0.1
1.27	0.02	0.3	0.1
1.28	0.02	0.3	0.1
1.29	0.02	0.3	0.1
1.30	0.02	0.3	0.1

39050 39051 39052

Rock Chip Denhurst P.L.

Rock Chip Denhurst Ltd.

Chapel samples Ken Day P.L.

N.B. Sample N. Drifted by TR 172730

5 m. intervals

2732

1 m. intervals

Chapel samples Denhurst

2 m. intervals

2738

2739

SCALE 1:500

metres 0 10 20 30

denehurst
LIMITED

CR 90/442C

COPPER FLOWER PROSPECT

Rock Chip Sample Compilation

Location and Geochemistry

Compiled Ken Mackillop Drawn BYX/LG

Date NOVEMBER 1988 Scale 1:500

Plan No. Sheet 1/3



REFERENCE

Quaternary	Qa	alluvium deposit, sand, silt, gravel, dark grey clay soil
Cenozoic	Czs	Residual sand and soils
	Czl	Pisolithic laterite and ferruginous rubble, pebble surface
	Czv	Basalt, basaltic Conglomerate
Early Proterozoic	Peh	Hinderance Creek Sandstone, massive medium grained feldspathic and micaceous sandstone
	Peg	Eva Valley Granite, porphyritic biotite leucogranite
	gr	biotite adamellite, minor enolithic biotite leucogranite with quartz + greisen veins/pods
	Pdm	Maud Dolerite, meta-dolerite, amphibolite
	Pbt	Tollis Formation
	b	very thin to medium bedded micaceous shales, siltstone, fine to medium grained sandstone
	blf	chloritic argillites, basaltic dolerite, siliceous dark green meta-tuffs, minor chert and acid volcanics, silica-haematite to jasperite to banded iron formation exhalites (bif), rare tourmaline and barite bearing exhalites
	c	grey to mauve shales, siltstone and grey fine to medium grained micaceous sandstone-arkose.

LEGEND

shr	Shear strike and dip
q	Quartz
blf	Prospect Pits, abandoned

LEGEND

- Drill Hole
- road
- track
- fence
- drainage

SCALE 1:500

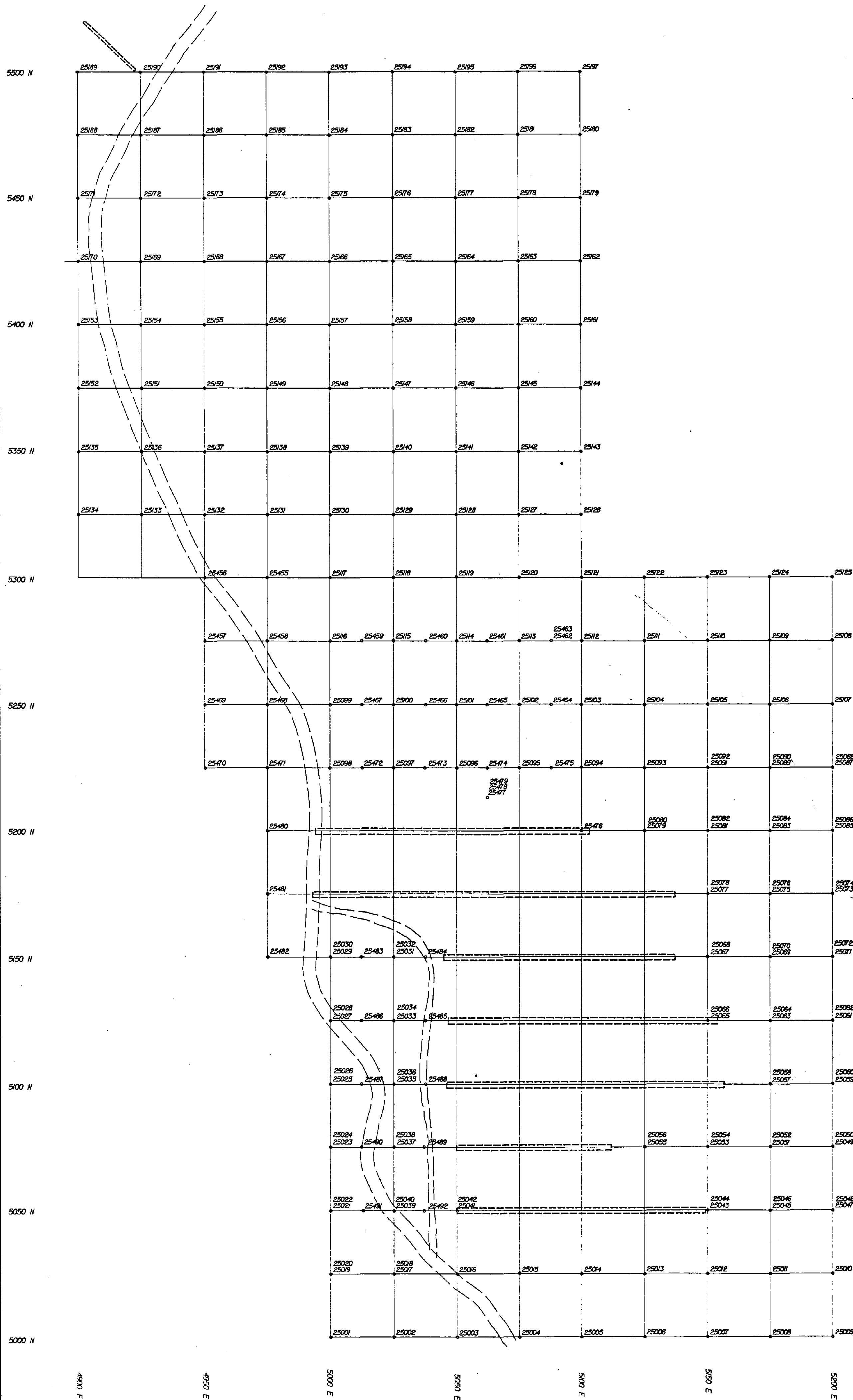
metres 0 10 20 30

denehurst
LIMITED

CR 90/442C

COPPER FLOWER PROSPECT
GEOLOGY

Compiled Ken Mackillop	Drawn AR/SEARCH MAPPING
Date NOVEMBER 1988	Scale 1:500
Plan No	Sheet 1/1



LEGEND

- Drill Hole
- Accession (rehabilitated)
- road
- track
- fence
- drainage

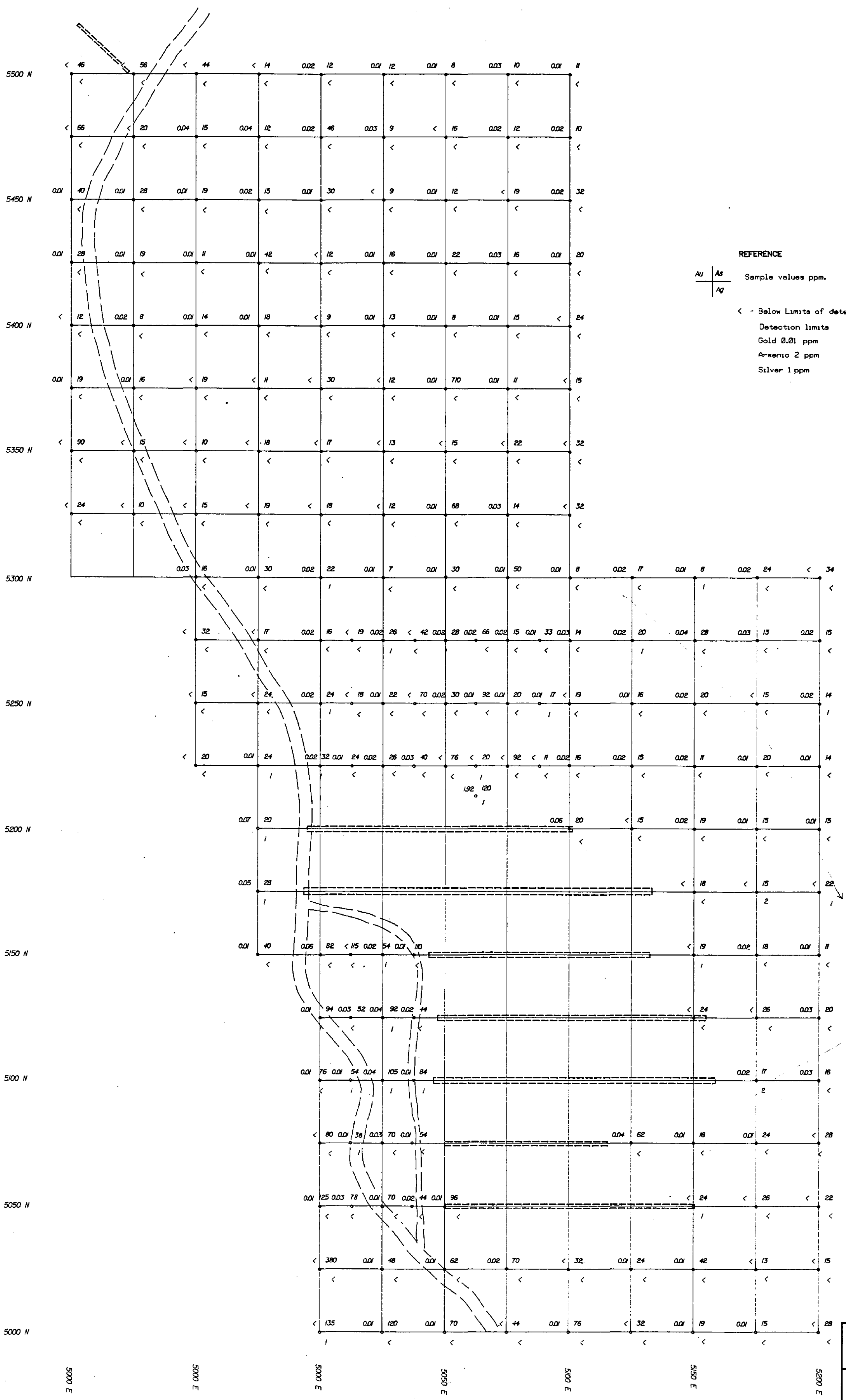
SCALE 1:1000

denehurst LIMITED

**COPPER FLOWER PROSPECT
Bedrock Sample Location**

Author: Ken Mackillop	Drawn: 25/11/88
Date: NOVEMBER 1988	Scale: 1:1000
Plan No.	Sheet 15

CR90/442C



REFERENCE

Au	As
Sample values ppm.	

< - Below Limits of detection

Detection limits
Gold 0.01 ppm
Arsenic 2 ppm
Silver 1 ppm

LEGEND

- Drill Hole
- Contour (revised/initial)
- road
- track
- fence
- drainage

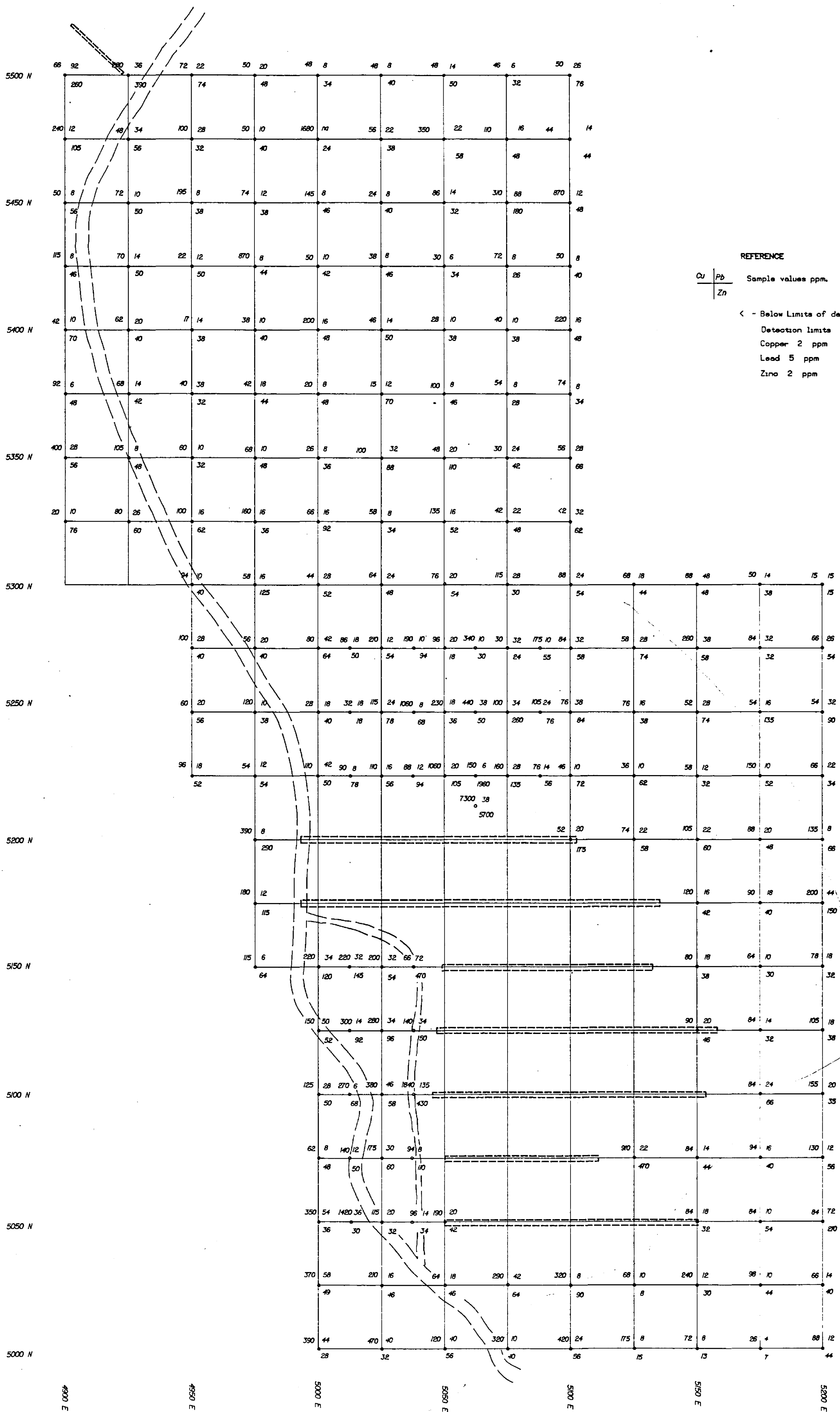
SCALE 1:1000

denehurst
LIMITED

COPPER FLOWER PROSPECT
Bedrock Geochemistry
Au, As, Ag

Author: Ken Mackillop
Date: NOVEMBER 1988
Scale: 1:1000
Sheet: 1 of 4

CR 90/442



CR 90/442C