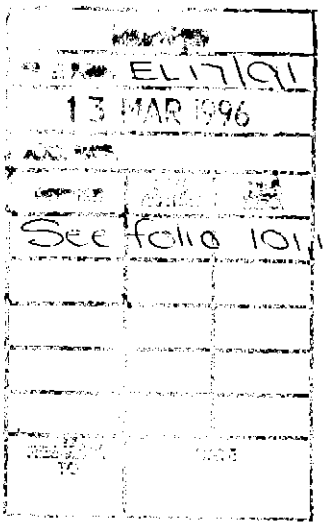
96-3843 (CF)

329001

RESOLUTE SAMANTHA LIMITED

ANNUAL REPORT 1995

VOLUME 1|5



EL 17/91 "MATHINNA"

96-3843

VOLUME 1 OF 5 ANNUAL REPORT
1995 EL 17/91 MATHINNA - RESOLUTE
SAMANTHA LTD - MACDONALD, G.

Grant MacDonald
February 1996
GM609:da

AMG REFERENCE POINTS ADDED

TABLE OF CONTENTS

329002

PAGE NO.

FIGURES

329003

Figure No	Title	Scale
1	EL 17/91 "Mathinna" location	1:250000
2	Mathinna topography with summary of work conducted overlay	1:50000
3	EL 17/91 geology with aeromagnetic interpretation overlay	1:50000
4	Fold axes and poles to bedding and cleavage	NA
5	Poles to faults	NA
6	Poles to veins and major reefs	NA
7	Poles to structures in the New Golden Gate adit and surface mapping	NA
8	Chinamen's Hill No 1 and No 2 costean locations	1:1000
9	Geology of Mathinna area	1:10000
10	Geology and drill location; Sheet 1	1:1000
11	Geology and drill location; Sheet 2	1:1000
12	Geology; Sheet 3	1:1000
13	Geology and drill location; Chinamen's Hill	1:1000
14	New Golden Gate mine, Compilation of Historical Information	As shown
15	Contours of Magnetic Intensity, Mathinna	1:10000
16	Interpretative cross section, New Golden Gate mine	1:5000
17	Shallow B-horizon soil sample locations, Mathinna grid	1:5000
18	Shallow B-horizon soil sample results - Au and As, Mathinna grid	1:5000
19	Shallow B-horizon soil sample locations, Chinamen's Hill grid	1:5000
20	Shallow B-horizon soil sample results - Au and As, Chinamen's Hill grid	1:5000
21	Deeper B-horizon (augered) soil sample locations, Mathinna grid	1:5000
22	Deeper B-horizon (augered) soil sample results Au and As, Mathinna grid	1:5000
23 a	Contoured shallow and deeper B-horizon gold soil results, Mathinna	1:5000

Figure No	Title	Scale
23 b	Contoured shallow B-horizon gold soil results, Chinamen's Hill grid	1:5000
24	Drill hole location plan	1:5000
25	Drill Section 9900 N (MT 26)	1:500
26	Drill Section 8200 N (MT 5, 6, 20, 21)	1:500
27	Drill Section 8100 N (MT 7)	1:500
28	Drill Section 8000 N (MT 4, 8, 9, 10)	1:500
29	Drill Section 7900 N (MT 18, 19)	1:500
30	Drill Section 7800 N (MT 3, 14, 15, 16)	1:500
31	Drill Section 7700N (MT 1, 2)	1:500
32	Drill Section 7600N (MT 12)	1:500
33	Drill Section 7335N (MT 13)	1:500
34	Drill Section 7100N (MT 11)	1:500
35	Drill Section 6750N (MT 24)	1:500

PLATES

APPENDICES

PLATES

APPENDICES

1.0 SUMMARY

Gridded soil sampling (100 m x 50 m), with assaying for gold and arsenic, was conducted over all areas of known old gold workings in EL 17/91 "Mathinna". At the same time, historical research and geological mapping focussing on old workings was also conducted.

Following some initial problems with surface contamination by the battery sands of the New Golden Gate mine, a number of strong coherent gold soil anomalies were defined at Township/Church Hill, Chinamen's Hill and Horseshoe, with a number of smaller, less coherent anomalies also defined.

Mapping and historical research also defined a number of areas with potential for high grade quartz reefs.

This mapping also called in question the current structural model for mineralisation at Mathinna and resulted in the proposal of an alternative or complementary model to account for some gold mineralisation.

Costeans were dug on one prospect (Chinamen's Hill) with encouraging results.

Due to the emphasis on initially locating a shallow, large tonnage lower grade deposit, the drilling programme was focussed on the soil/costean geochemical anomalies with targets based on structural mapping/historical research left for a second phase.

Although technically successful, the initial phase of drilling was disappointing and Resolute Samantha Limited have decided not to continue exploration.

2.0 INTRODUCTION

2.1 Location

EL 17/91 "Mathinna" is centred on the township of Mathinna, an old gold mining town, in Tasmania's north-east (see Figure 1).

Mathinna lies 65 kilometres due east of Launceston.

2.2 Tenure

EL 17/91, previously held by Alex White, was transferred to Resolute Resources Limited (now Resolute Samantha Limited) on 8th of March 1995.

EL 17/9 covers an area of $\approx$ 20 km^2. The licence is due for renewal on 28 May 1990. On 28 May 1997, half of the area must be relinquished.

2.3 Land Status/Usage

Apart from the township of Mathinna, land usage essentially follows topography with the river flats being private land under pasture and the hills, state forest. The only reserves of significance are those associated with the town ie cemetery, recreation, school etc. There are no RAPs or other conservation areas within the licence.

2.4 Topography/Vegetation

EL 17/91 covers the flood plain of the South Esk River and more significantly the hills to the south and, to a lesser degree, the north (see Figure 2).

As stated, the flats are under pasture. The hills are moderately steep in places (to $\approx$ 25°) and are almost invariably covered by very open "iron bark" eucalypt forest with effectively no understorey. The only exception to this is in gullies and south facing slopes where vegetation is dominated by wattles and other understorey species.

2.5 Access

Access both to and within EL 17/91 can be described as excellent. A sealed road provides access from Launceston to the EL whilst within the EL a number of rather strategically located gravel roads, generally along ridge lines, provide 4WD vehicular access to almost all prospective areas.

RESOLUTE SAMANTHA LIMITED

AMG REFERENCE POINTS ADDED

EL 17/91 "MATHINNA"

LOCATION

329009

Scale :	1:250000
Date :	

3.0 GEOLOGY

3.1 Introduction

Geological mapping was a major component of the exploration work conducted this year. That work forms the basis for section 3.3 - Mathinna Geology whilst Section 3.2 - Regional Geology is based largely on work by the Tasmanian Mines Department.

3.2 Regional Geology

EL 17/91 lies towards the southern end of the distinctively north-north-west trending lineament of gold deposits which extend from Mangana in the south to Lyndhurst on the coast. The gold deposits occur as auriferous quartz reefs hosted in the Mathinna Beds, a sequence of pelitic to quartzwacke turbidites.

The Mathinna Beds outcrop over much of the north-east and are known to contain units of both Ordovician and Silurian age. They are the oldest known rocks in the north-east.

The Mathinna Beds are intruded by I and S - type granitoids which range in age from Late Devonian to Early Carboniferous. The intrusive sequence has been shown in almost all cases to be granodiorite (oldest), adamellite, alkali felspar granite (youngest). The Lyndhurst-Mangana gold lineament lies along a 'corridor' of the Mathinna Beds bounded to the west by the Scottsdale Batholith and to the east by the Blue Tier Batholith. This 'corridor' widens to the south.

Both the granites and Mathinna Beds are overlain unconformably by Permo-Triassic glacimarine sediments of the Parmeener Supergroup. These sediments are intruded by Jurassic dolerite sills.

Tertiary basalts occupy palaeotopographic lows with interbedded Tertiary gravels not uncommon.

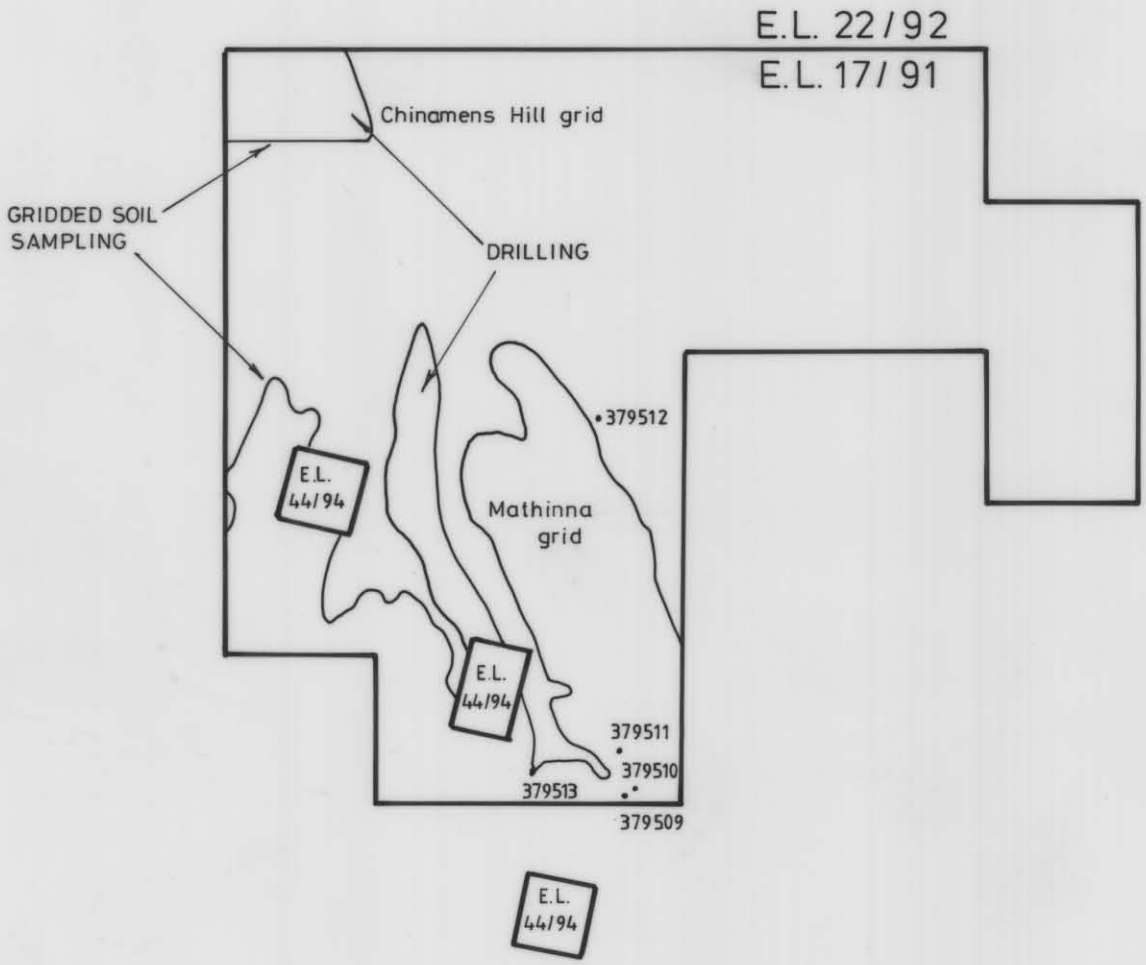
All rocks are unconformably overlain by Quaternary alluvium in river valleys.

Structure

Regional mapping shows the major structures in the Mathinna Beds to be north-north-west trending horizontal to shallowly plunging, asymmetrical folds with a (usually) south-westerly dipping axial planar surface indicating a regional easterly vergence (Williams and McClenaghan, 1989).

More recent work (Keele, 1994) argues that "the north east terrain of Tasmania can be conceived if as a gently west-dipping thrust wedge ... which had experienced crustal thickening during the Mid-Devonian orogeny".

This folding and/or thrust faulting is interpreted to have taken place in the Mid Devonian in an event correlated with the Tabberabberan Orogeny (McClenaghan, 1994).



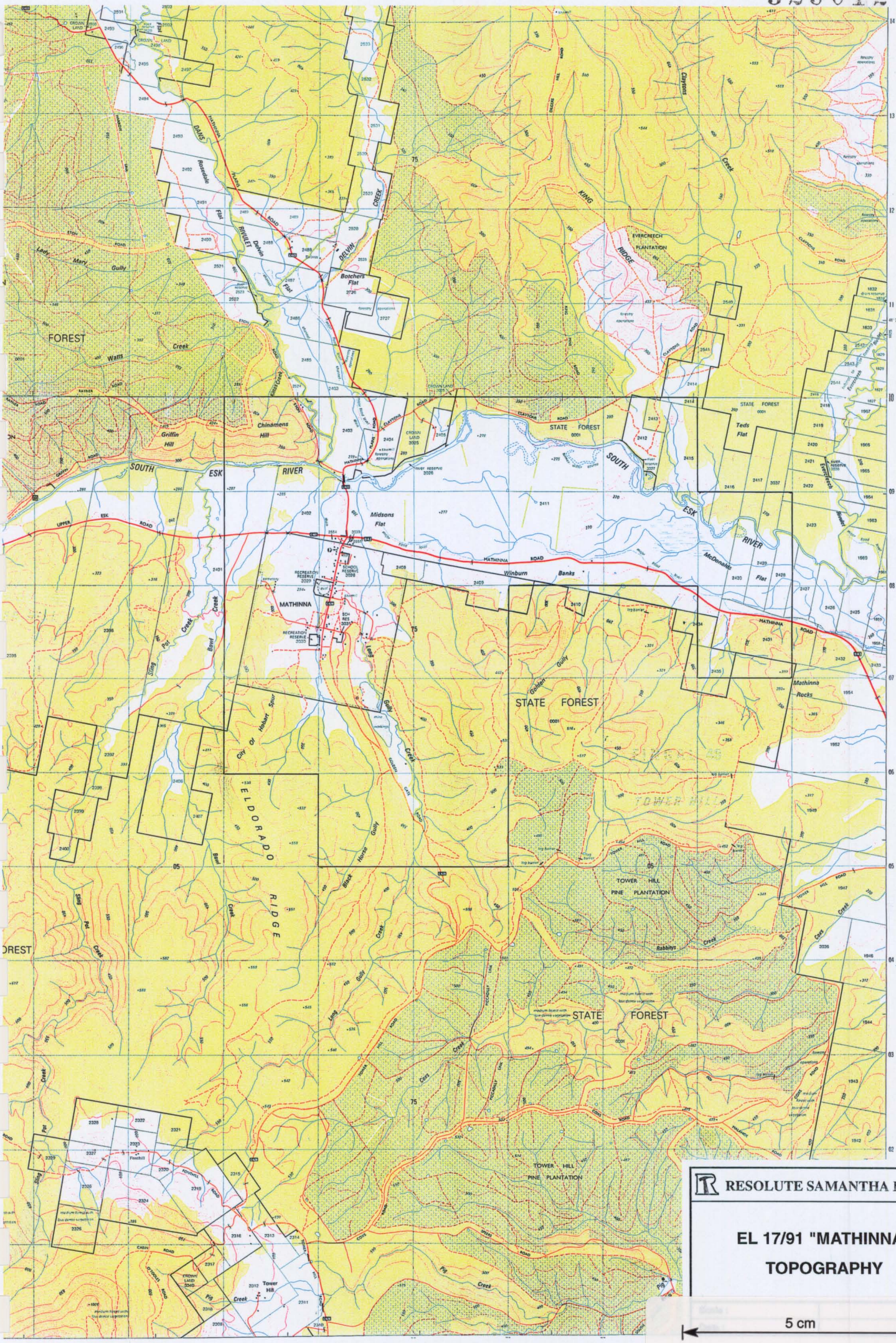
KEY

• 379513 Stream BLEG sample location / number

5 cm

RESOLUTE SAMANTHA LIMITED		
E.L. 17/91 SUMMARY OF WORK COMPLETED		
Author G. MacD	Scale 1: 25000	Fig. no.
Drawn O.H.	Date Feb 1996	

329012



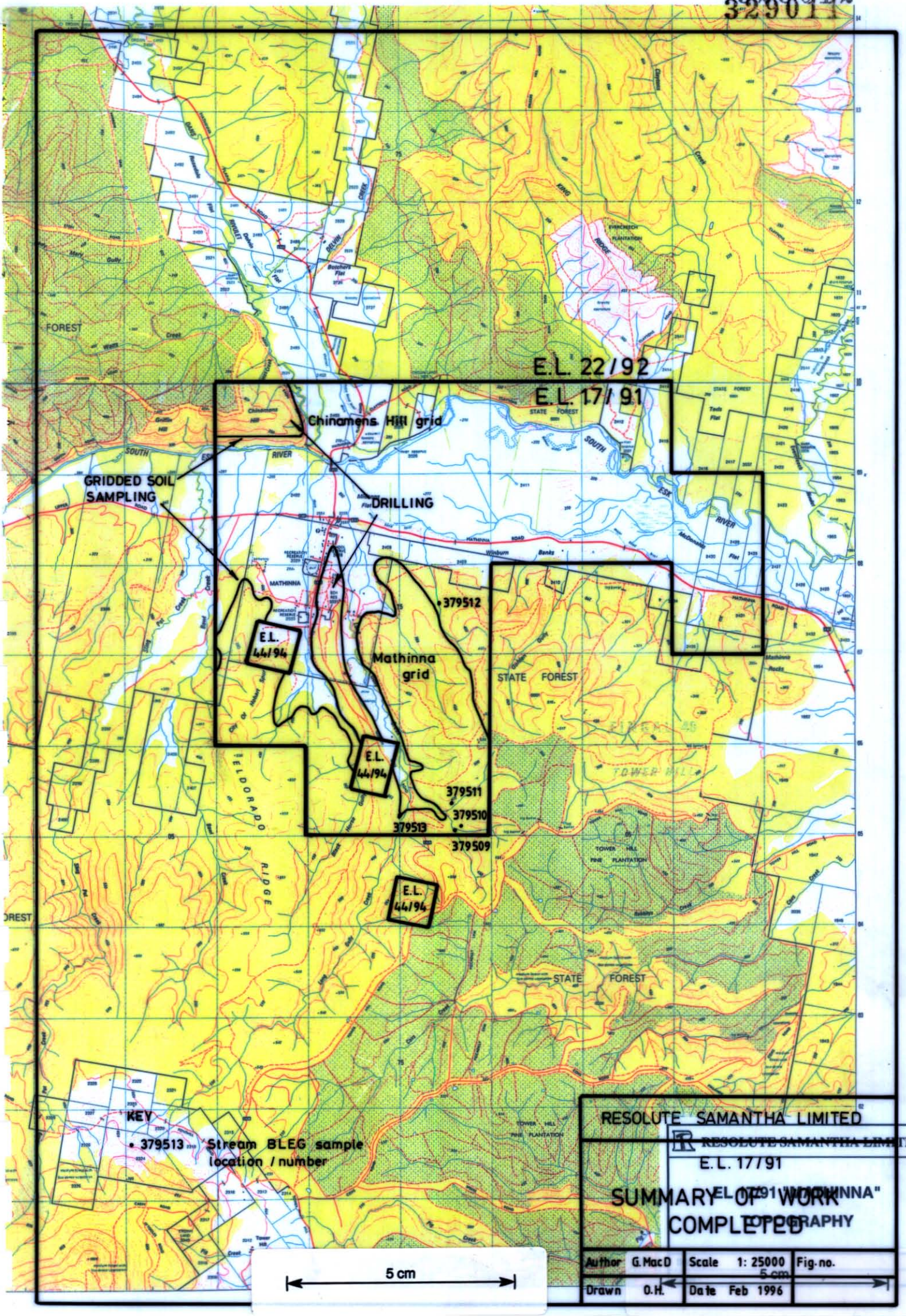
RESOLUTE SAMANTHA LIMITED

EL 17/91 "MATHINNA"

TOPOGRAPHY

5 cm

3290112



RESOLUTE SAMANTHA LIMITED

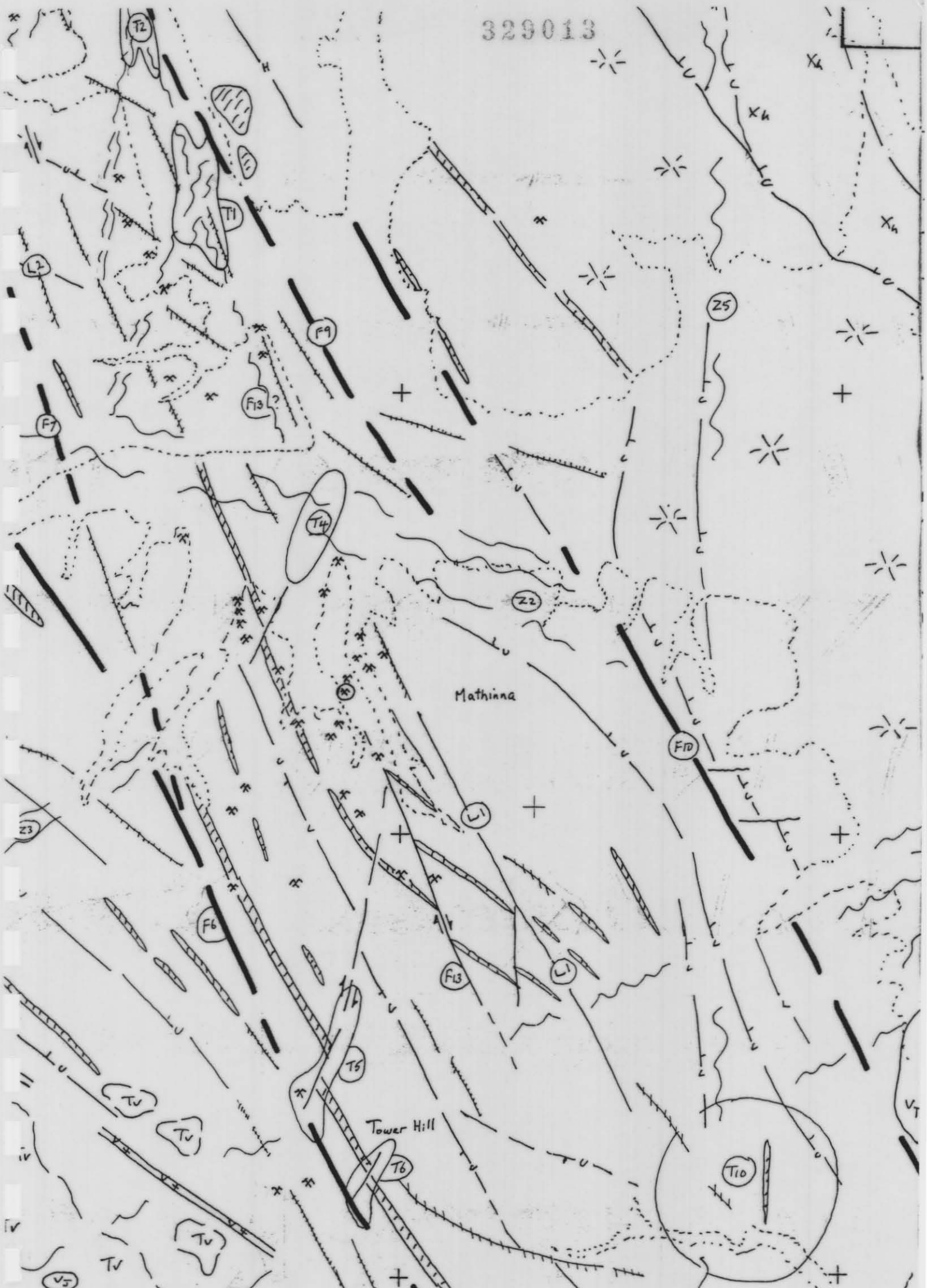
E.L. 17/91

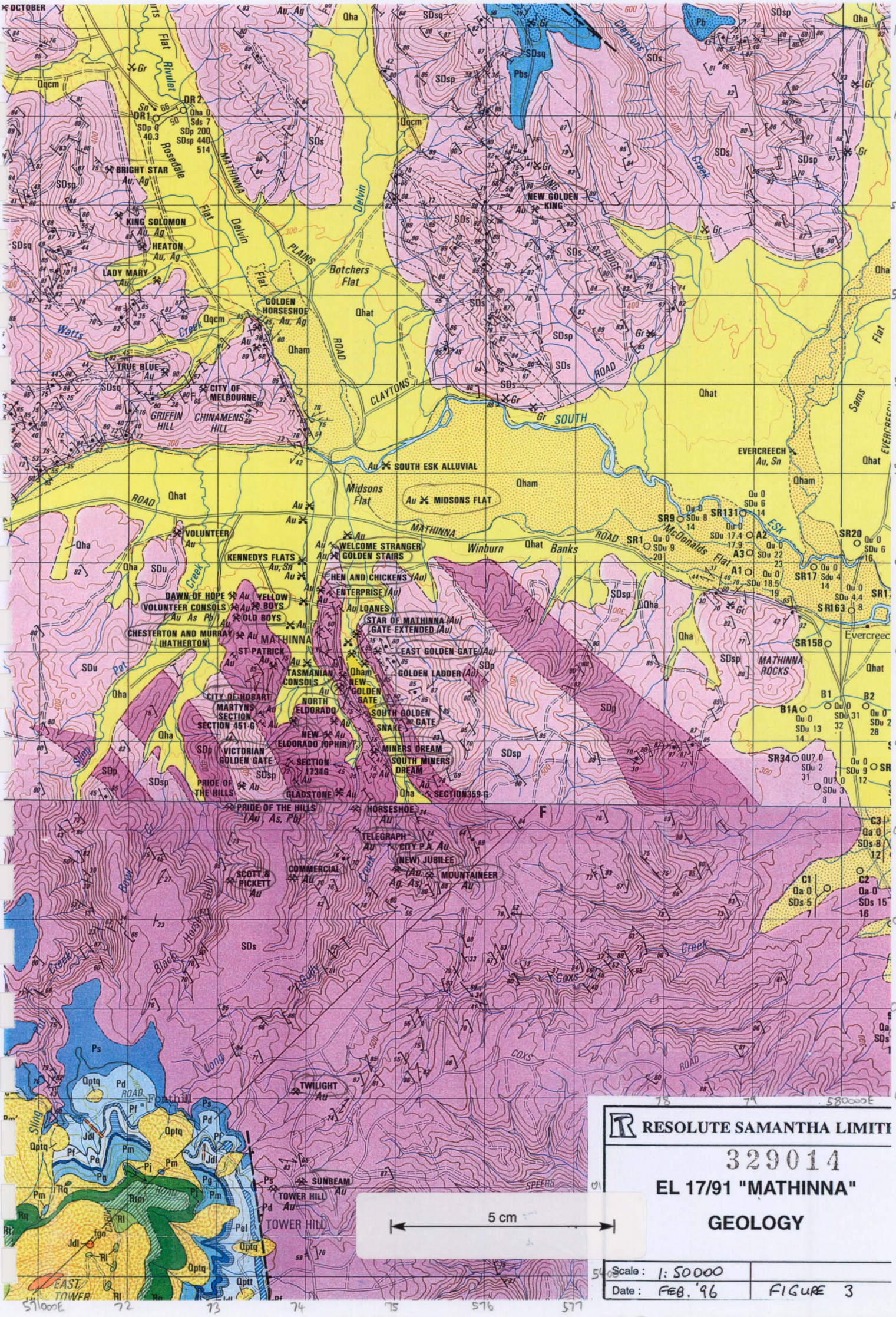
"MATHINNA"

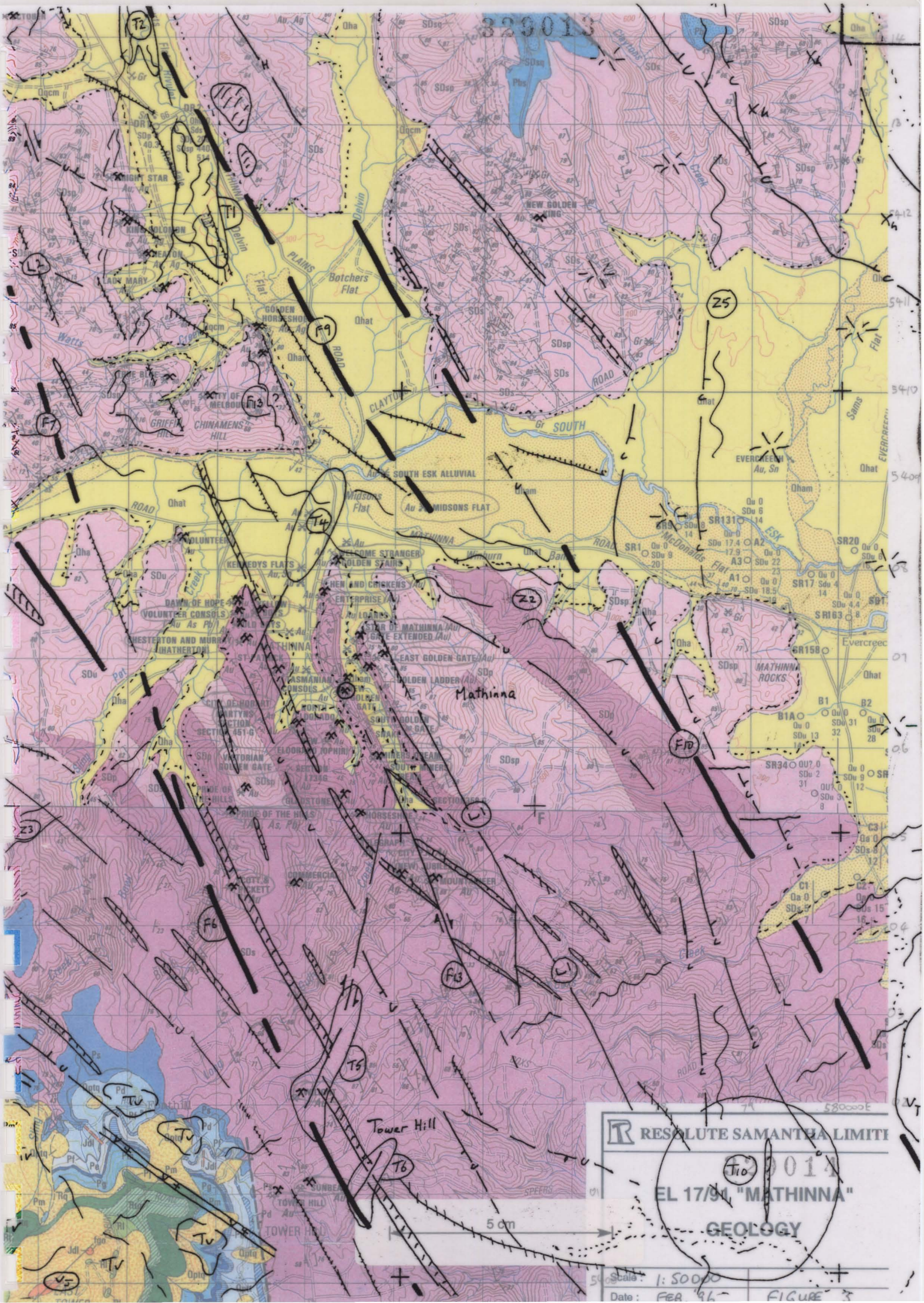
SUMMARY OF WORK COMPLETED

TOPOGRAPHY

Author	G. MacD	Scale	1: 25000	Fig. no.
Drawn	O.H.	Date	Feb 1996	


T2
T1
L2
F9
F13
F7
T4
Z5
Z2
Mathinna
F10
L1
Z3
F6
F13
L1
T5
Tv
Tv
Tower Hill
T6
T10
Vt
Tv
Tv
Tv
Vj
Xk
Xk
Xk


OCTOBER
BRIGHT STAR
Au, Ag
KING SOLOMON
Au, Ag
HEATON
Au, Ag
LADY MARY
Au
TRUE BLUE
Au
CITY OF MELBOURNE
GOLDEN HORSESHOE
Au, Ag
GRIFFIN HILL
CHINAMENS HILL
Watts Creek
Rosedale Flat Rivulet
MATHINNA Flat
Delvin
PLAINS
Botchers Flat
ROAD
CLAYTONS
SOUTH
NEW GOLDEN KING
RIDGE
Claytons Creek
SOUTH ESK ALLUVIAL
Midsons Flat
MIDSONS FLAT
MATHINNA ROAD
Winburn
Banks
McDonalds Flat
ESK
EVERCREECH
Au, Sn
Sams
VOLUNTEER
KENNEDYS FLATS
Au, Sn
WELCOME STRANGER
GOLDEN STAIRS
HEN AND CHICKENS (Au)
ENTERPRISE (Au)
LOANES
STAR OF MATHINNA (Au)
GATE EXTENDED (Au)
EAST GOLDEN GATE (Au)
GOLDEN LADDER (Au)
DAWN OF HOPE
VOLUNTEER CONSOLS
Au As Pb
YELLOW BOYS
OLD BOYS
CHESTERTON AND MURRAY (HATHERTON)
ST PATRICK
TASMANIAN CONSOLS
NEW GOLDEN GATE
CITY OF HOBART
MARTYNS SECTION
SECTION 451-G
NORTH ELDORADO
SOUTH GOLDEN GATE
SNAKE
NEW ELDORADO (OPHIR)
VICTORIAN GOLDEN GATE
SECTION 1734G
MINERS DREAM
SOUTH MINERS DREAM
PRIDE OF THE HILLS
GLADSTONE
SECTION 359-G
PRIDE OF THE HILLS (Au) As, Pb
HORSESHOE
TELEGRAPH
CITY P.A.
(NEW) JUBILEE
SCOTT & PICKETT
COMMERCIAL
MOUNTAINEER
Au, As
TWILIGHT
SUNBEAM
TOWER HILL
Foothill ROAD
EAST TOWER
COXS ROAD
SPEERS
MATHINNA ROCKS
Evercreec
SR1
SR9
SR131
SR20
SR17
SR163
SR158
SR34
A1
A2
A3
B1
B1A
B2
C1
C2
C3
F
5 cm
RESOLUTE SAMANTHA LIMITED
329014
EL 17/91 "MATHINNA"
GEOLOGY
Scale : 1: 50000
Date : FEB. '96
FIGURE 3


329013
RESOLUTE SAMANTHA LIMITED
EL 17/91, "MATHINNA"
GEOLOGY
Scale: 1:50000
Date: FEB '96
FIGURE 3
5 cm
Mathinna
Tower Hill
MATHINNA ROCKS
Evercreec
SOUTH ESK ALLUVIAL
MIDSONS FLAT
EAST GOLDEN GATE (Au)
GOLDEN LADDER (Au)
SOUTH GOLDEN GATE
HOME STRANGER
GOLDEN STAIRS
HEN AND CHICKENS (Au)
ENTERPRISE (Au)
KENNEDYS FLATS
VOLUNTEER
DAWN OF HOPE
(VOLUNTEER CONSOLS)
CHESTERTON AND MURRAY
(HATHERTON)
TASMANIAN CONSOLS
VICTORIAN GOLDEN GATE
NEW GOLDEN KING
EVERGREEN
CHINAMENS HILL
GRIFFITH HILL
CITY OF MELBOURNE
LADY MARY
KNIGHT STAR
GOLDEN HORSESHOE
Botchers Flat
Midsons Flat
Delvin
Watts
Creek
PLAINS
ROAD
CLAYTON
SOUTH
ESK
McDonalds Flat
Sams
Flat
Qha
Qhat
Qham
Qaqcm
SDsp
SDs
SDu
Pbs
Pqt
Au
Au, Sn
Au, Ag
Au, As, Pb
Gr
SR1
SR17
SR20
SR131
SR163
SR158
SR340
B1
B1A
B2
C1
C3
F1
F6
F7
F9
F10
F13
L1
L2
Z2
Z3
Z5
T2
T4
T5
T6
T10
Tv
Vs
5412
5411
5410
5409
5408
5407
5406
5404
580000E

REFERENCE

QUATERNARY

PLEISTOCENE – ? – HOLOCENE

Qhm — Mine tailings and man disturbed ground.

Qha — Alluvium and marsh deposits; of modern flood plains (Qham) indicated ▨ ; of high terraces (Qhat); forming fans (Qhaf).

Qu
- Qqc — Colluvium; derived from Mathinna Beds (Qqcm).
- Qpt — Talus, scree and rare till; consisting of dominantly dolerite boulders (Qptd); of dolerite and subordinate Lower Parmeener Supergroup boulders (Qptp); of dominantly granitic boulders (Qptg).

?

Probably older boulder deposits; consisting of dominantly dolerite (Ctd); of Lower Parmeener Supergroup conglomerate and sandstone (Ctp).

?

Erosional surface

TERTIARY

Tu
- Tsg — Silts, sand and gravels (Ts); sands and gravels cemented by iron oxides (Tsf); conglomerate with rounded clasts of Mathinna Beds and very rare weathered dolerite, often partially cemented by iron oxides (Tsc).
- Tsg — Quartz granule gravel probably drived from granitic rocks.
- Tb — Basanite (Tbb) and olivine nephelinite (Tbn). Probable age c. 16Ma in the Ringarooma-Talawa area.
- Ts — Volcanic breccia, containing angular clasts of Mathinna Beds and olivine-rich basaltic material, known only from an inferred pyroclastic vent, intersected in a drill hole at EQ630115.
- Tp — Alkali olivine basalt (Tba) and basanite (Tbb) in the West Pyengana area. Age 47.4 ± 0.6 Ma at EQ771312.
- Tb — Basaltic agglomerate and tuff near EQ800330
- Ta

Low angle unconformity.

PERMIAN

- Pe — Mudstone and siltstone with abundant marine fossils, at EQ691239.
- Pf — Fine-grained sandstone with phosphatic nodules, at EQ796204 (Pf – Fonthill Sandstone Member).
- Pd — Grey mudstone and siltstone (Pe, Pf, Pd – Castle Carey Mudstone.)
- Ps — Dominantly well-sorted quartz sandstone, usually cross-bedded or laminated, with minor carbonaceous shale (Ps – Aberfoyle Formation).
- Pb, Pbs — Mudstone, siltstone and poorly sorted sandstone, with marine fossils in places (Pb); dominantly thick-bedded to massive, medium to coarse-grained quartz sandstone and minor conglomerate (Pbs). (Pb, Pbs – correlates of the Strickland Gorge Formation).

LOWER PARMEENER SUPER GROUP — TAMARIAN STAGE | BERNACCHIAN STAGE — REKUNIAN SERIES

Angular unconformity

EARLY DEVONIAN (?) SILURIAN-ORDOVICIAN (?)

- SDs — Quartzwacke turbidite sequence of interbedded sandstone, siltstone and mudstone (SDu); sequences with significant mudstone indicated (SDsp); dominantly sandstone and siltstone (SDs); some quartzite units indicated (SDsq).
- SDu
- SDp — Dominantly mudstone and siltstone (SDp).

MATHINNA BEDS

Metapsammite (SDsm, SDspm), metaquartzite (SDsqm) and metapelite (SDpm SDspm) contact metamorphosed by granitic intrusions indicated by overprint (▨).

IGNEOUS ROCKS

TERTIARY

Tb — Alkali olivine basalt (Tba), basanite (Tbb) and olivine nephelinite (Tbn). Presence of lherzolite nodules indicated (Tbbx, Tbnx).

JURASSIC

Jdl — Dolerite – grain size 0.2-0.7mm (f) and 0.7-1.5mm (m) indicated.

DEVONIAN (?)

Ddl — Dolerite dykes (EQ749326, EQ826325, EQ513116).

Dma — Aplite and aplitic granite (Dmag).

Dmp — Quartz-feldspar porphyry.

Dmm — Fine-grained quartz monzonite (EQ827190).

MAJOR GRANITIC INTRUSIONS

SCOTTSDALE BATHOLITH

DEVONIAN

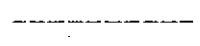
- Dsae — Generally equigranular medium to coarse-grained, leucocratic biotite alkali-feldspar granite/adamellite with pale pink feldspar.
- Dsap — Sparsely to moderately porphyritic (quartz and K-feldspar), fine to coarse-grained, biotite granite/adamellite. Coarser grained in southern part of pluton, (Dsae, Dsap – Tombstone Creek pluton).
- Dsac — Equigranular, coarse to very coarse-grained, biotite ± hornblende, adamellite/granodiorite, with pale pink to white feldspar. Hornblende- and white feldspar-bearing granodiorite in southern part of pluton. (Dsac – Russells Road pluton).

Dsw
- Dsaw — Variably equigranular, seriate or sparsely porphyritic (K-feldspar phenocrysts up to 30mm), medium- to coarse-grained biotite ± hornblende adamellite/granodiorite; variety with very abundant fine- to coarse-grained quartz diorite xenoliths indicated (▨ Dsawx). Hornblende-bearing granodiorite in southern part of pluton (Dsaw, Dsawx – Hogarth Road pluton).
- Dsgc — Equigranular to seriate (K-feldspar) coarse- to very coarse-grained biotite-hornblende granodiorite (Dsgc); very coarse-grained (>10mm) variety indicated (▨ Dsgcc) (Dsgc, Dsgcc – Upper Blessington pluton).
- Dsg — Equigranular, medium- to coarse-grained biotite-hornblende granodiorite. (Dsg – Porcupine Creek pluton and, in the extreme west, Diddleum pluton).

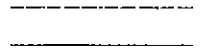
BLUE TIER BATHOLITH

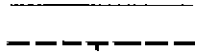
Dbapc — Coarse-grained porphyritic (K-feldspar) to equigranular, biotite- and biotite-muscovite. granite/adamellite (Dbapc-Poimena pluton).

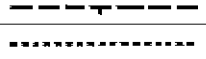
Dbw
- Dbg — Medium-grained, equigranular to rarely porphyritic (K-feldspar), hornblende-biotite granodiorite and subordinate biotite granodiorite. Locally with a strong grain foliation. Variably but usually strongly magnetic [x typically 2 to 8 $\times 10^{-3}$] (Dbgs). Weakly magnetic [$x < 0.5 \times 10^{-3}$] zones (Dbgw) indicated by overprint (▨). Variety without hornblende (Dbgwb) indicated. (Dbg, etc – Pyengana pluton).
- Dbh — Coarse-grained, equigranular to porphyritic (K-feldspar) biotite adamellite, (generally more melanocratic than Dbapc). In northern part of body, grading to biotite ± hornblende adamellite/granodiorite (Dbhh) with locally developed grain foliation. (Dbh, Dbhh – Haleys New Country pluton).


Geological boundary-position approximate.

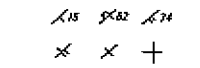
Geological boundary-inferred.

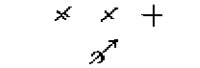

Geological boundary-transitional.

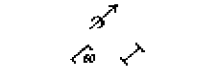

Airphoto Lineament.

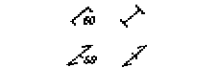

Fault — position approximate, downthrown side indicated

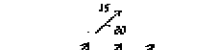
Fault — inferred.

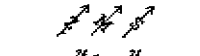

Fault — concealed.

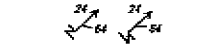

Strike and dip of beds — right way up, overturned, facing unknown.

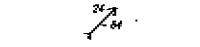

Vertical bedding, facing known, facing unknown; horizontal bedding, right way up.

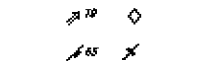

Generalised palaeocurrent direction.

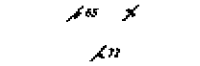

Strike and dip of primary cleavage, vertical.


Strike and dip of later cleavage, vertical


Direction and plunge of minor fold hinge line, with direction of dip of axial surface.


Vergence (viewed down plunge)-dextral, no vergence, sinistral.

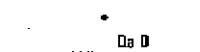

Direction and plunge of kink-band hinge line, with direction of dip of axial surface,-and sense of displacement viewed down plunge.

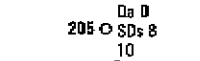

Direction and plunge of chevron-fold hinge line, with direction of dip of axial surface.

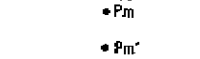

Plunge of columnar jointing, vertical.

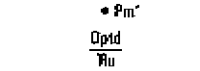
Strike and dip of dominant joint set, vertical.


Strike and dip of foliation due to alignment of K-feldspar phenocrysts in granitic rock.

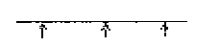

Trend of apparent lineation of K-feldspar phenocrysts on horizontal surfaces of granitic rock.


Trend of sulphide-bearing vein.


Macrofossil locality in poorly-fossiliferous sequences.

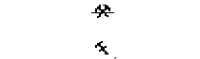

Field station for adjacent readings on map.

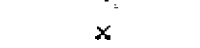

Borehole with identification number, depths in metres to rock types encountered, and final depth.


Notable small outcrop.


Notable float occurrence.


Talus concealing underlying rock type inferred from magnetometer survey.


Cirque.


Limit of glacial smoothing of dolerite bedrock.


Major mine — closed.

Mine — operating.

Mine abandoned.

Mine or prospect — little or no production.

Alluvial workings — operating.

Alluvial workings — abandoned.

(Sn — tin, W — wolfram, Pb — lead, Zn — zinc, Cu — copper, Ag — silver, U — uranium, C — coal, Au — gold, Sn — tin)

Quarry or pit — operating.

Quarry or pit — abandoned.

(Gr — gravel, Bs — building stone)

To a large degree granitoid intrusion post-dated this deformation phase as evidenced by the truncation of folds in the Mathinna Beds by these granites though some deformation is noted in granitoids and adjacent Mathinna Beds (Goscombe and Findlay, 1989).

The Mid Devonian deformation has produced an "approximate fold axial planar penetrative cleavage (S_1) which is the predominant structural surface present throughout the whole of NE Tasmania" (Goscombe and Findlay, 1989). This cleavage is generally steeply dipping.

Both outcrop and mega-scale kink bands recognisable throughout the north-east are interpreted to post-date granitoid intrusion. They are interpreted to have been produced by a north-north-west trending principal stress regime (Goscombe and Findlay, 1989).

Mineralisation

Gold bearing quartz veins are considered to have formed in the Middle Devonian (Taheri and Bottrill, 1994), however, there is some uncertainty as to the role of the granitoids in gold mineralisation.

Gold mineralisation at both Lisle and Golden Ridge, elsewhere in the north-east, lies in Mathinna beds in the thermal metamorphic aureole of granodiorites and appears to be genetically related (Klominsky and Groves, 1970), however, this spatial relationship does not hold so well in the Mathinna area where the interpretation of aeromagnetic data suggests that Mathinna is underlain by granodiorite (Leaman, 1989) or granite (Richardson and Roach, 1994) at a depth of not less than 2 kms.

Recent detailed geochemical work by Taheri and Bottrill (1994) on veining on the Mangana - Forester part of the lineament suggests that most gold bearing quartz veins were probably formed by "deep seated metamorphic fluid, probably resulting from devolatilisation of metamorphic rocks at depth (though) deeply convecting chemically-modified meteoric fluids may also have played an important role".

A number of generations of quartz veining are noted and although paragenetic relations have been interpreted (Goscombe and Findlay, 1989 and Taheri and Bottrill, 1994) "detailed relationships are complex and ambiguous" (Taheri and Bottrill, 1994).

3.3 Mathinna Geology

Introduction

The geology of the Mathinna is touched on in a number of the early 'Mines Department' reports with significant contributions in Twelvetrees (1906 a) and Finucane (1935). Important contributions have also been made by Threader (1967) and Turner (1972). More recently detailed work on both the structural setting (Keele, 1994) and geochemistry (Taheri and Bottrill, 1994) of gold mineralisation in the Mangana-Forester area focussed to a large degree on the Mathinna area.

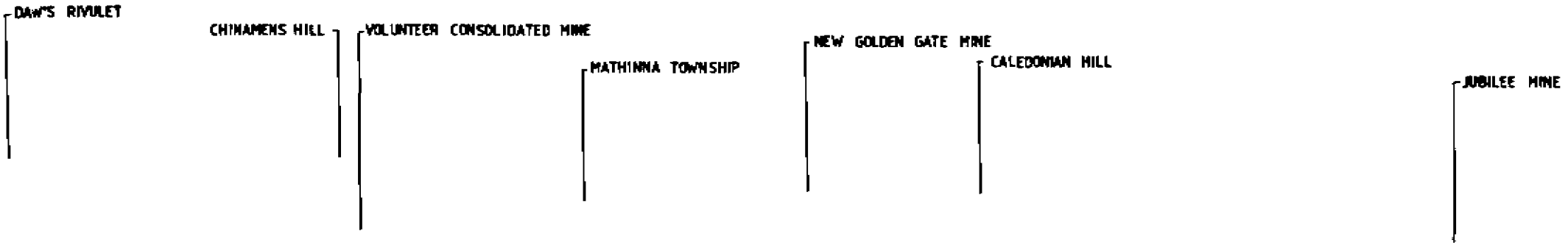

DAW'S RIVULET
CHINAMENS HILL
VOLUNTEER CONSOLIDATED MINE
MATHINNA TOWNSHIP
NEW GOLDEN GATE MINE
CALEDONIAN HILL
JUBILEE MINE

Plate 1 **EL 17/91 "Mathinna" - looking north east from east Tower Lookout, Tower Hill**

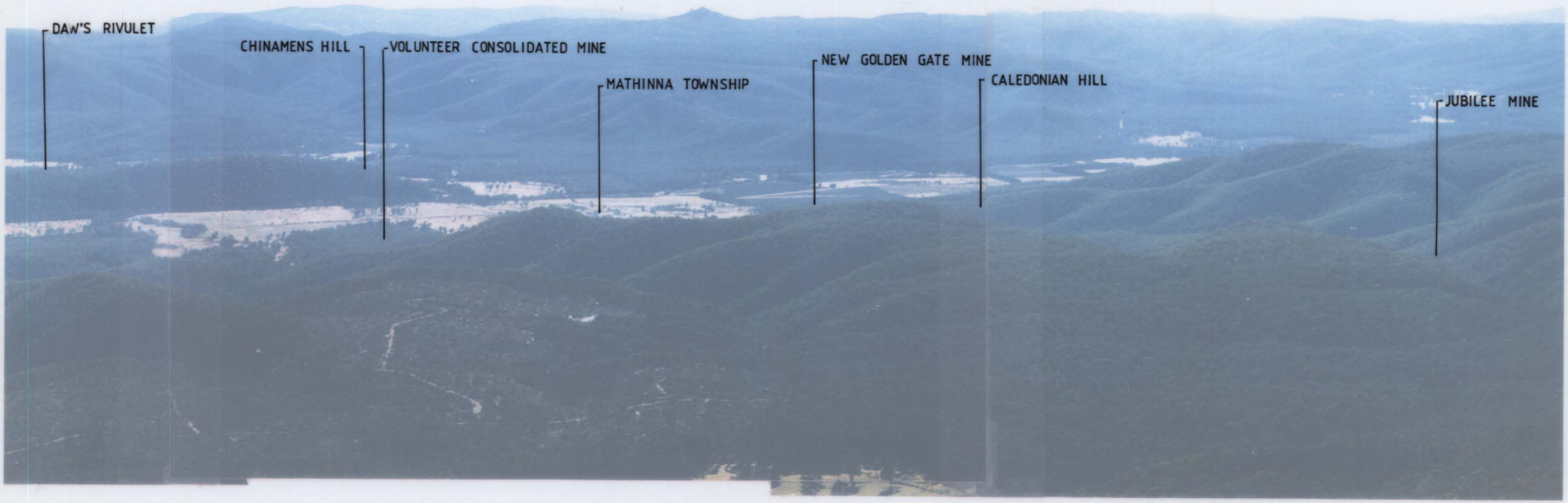


Plate 1 **EL 17/91 "Mathinna" - looking north east from east Tower Lookout, Tower Hill**

Lithology

The geology largely follows the topography with the hills underlain by Mathinna Beds and the river flats underlain by alluvials ranging in thickness up to a few tens of metres (see Figure 3). In part, these alluvials are elevated terraces. Just along the northern edge of the licence on Chinamen's Hill is a perched river terrace standing well above the current river flats. The old river channel (which contains coarse alluvial gold) would have flowed west to east.

Resolute Samantha's exploration was directed towards a hard rock gold resource and did not pay much attention to the geology of the alluvials.

Apart from the Mathinna Beds and alluvials, Turner (1972) also refers to a 'Basic Dyke Rock' found south of EL 17/91 around the Jubilee mine. It is described as being "extremely weathered, friable and maroon coloured" (Turner, 1972). Mapping by Resolute Samantha located a rock matching this description in the area, however, it fits our description of 'lode cap' (see later, this section). This is not to suggest that basic igneous dykes may not exist elsewhere as Ashley's interpretation (Appendix G) of the aeromagnetics around Tower Hill supports previous reporting of basic rocks around the Sunbeam mine (Finucane, 1935).

Regardless, it is considered that there are no such basic igneous dykes nor shallow granitoids (< 2 km) in the "Mathinna" licence.

The Mathinna Beds within EL 17/91 range in grain size from a fine sandstone to a fine grained siltstone/shale. Individual grains can generally be seen in the finer unit so it is perhaps technically not a true shale and has been referred to in drill logs as a 'siltstone/shale' though in further discussion in this section, this rock type is referred to as a shale in accordance with previous workers. The coarsest unit in drill logs is a 'siltstone'. An intermediate rock type has been logged in a number of holes as a 'fine grained siltstone'.

Siltstones and fine sandstones are generally pale green to dark grey green though most samples seen were of weathered float. They are generally moderately well bedded and most bedding readings come from these rocks.

Shales range from moderate green, grey green to dark grey green and almost black in colour. The dominant surface in these rocks in the S_1 cleavage with bedding often indistinguishable.

Although regionally part of a turbidite sequence the rocks in the Mathinna area do not display the full Bouma sequence though convoluted cross laminations can be seen in the Horseshoe open stope. Shale interbeds between siltstone/sandstone units are rare with interbedding generally on a broader scale.

This interbedding has defined three broad units which can be recognised in the Mathinna area. These units strike north-north-west with their spatial distribution controlled by the north-north-west striking folding. On Caledonian Ridge and to the immediate east, the rocks are predominantly siltstones and finer sandstones with minor shales.


GOLDEN STAIRS SHAFT
NEW GOLDEN GATE MINE
ENTERPRISE WORKINGS

Plate 2 **EL 17/91 "Mathinna" - Mathinna Township looking south along High Street**

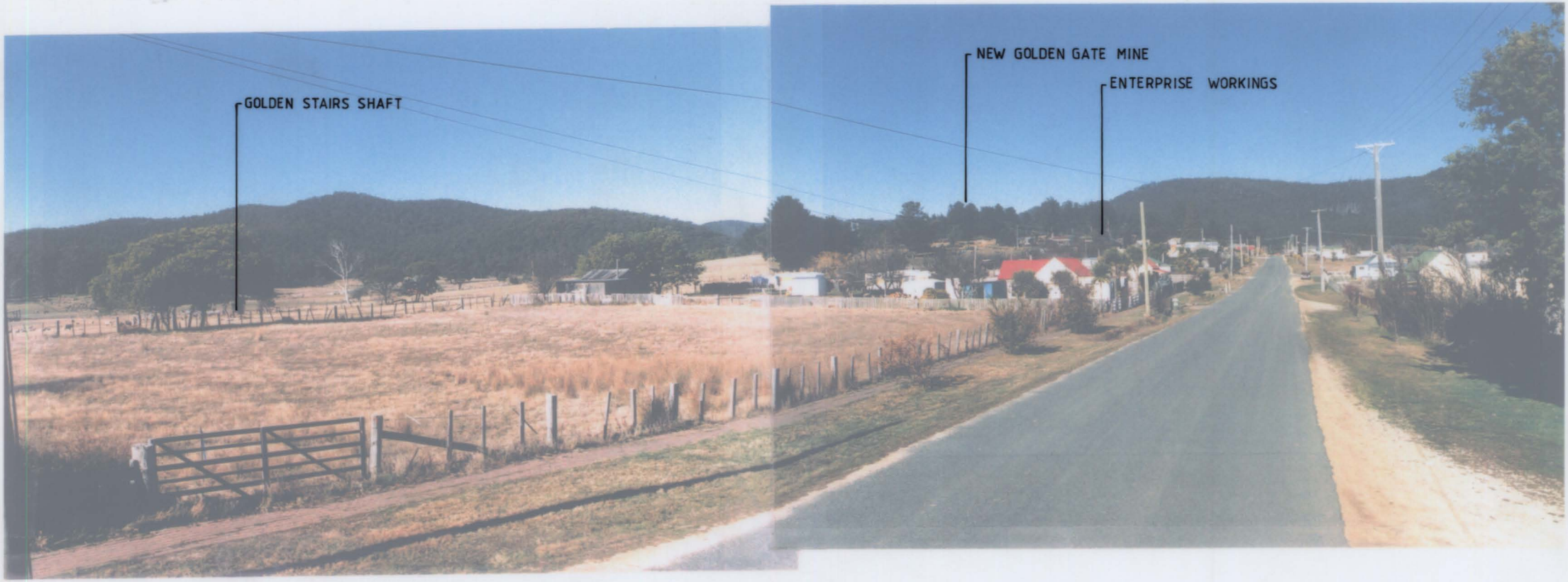


Plate 2 **EL 17/91 "Mathinna" - Mathinna Township looking south along High Street**

Long Gully and the Church Hill ridge to the west of the New Golden Gate mine are underlain by a predominantly shale rich unit with the rocks west of Black Horse Gully predominantly siltstones and fine sandstones with minor shales.

Depending on the structural interpretation, the coarser grained units may be the same unit as in Figure 16, or may be separate (see Figure 11 in Keele, 1994).

Alteration

Minor sericite and/or chlorite alteration is occasionally present within and/or immediately adjacent to quartz veining. Disseminated pyrite, and less commonly arsenopyrite, may occasionally be seen in the wall rocks to quartz reefs. The most significant alteration (other than silicification which is discussed under Veining) is carbonate spotting which is present around some reefing at Mathinna.

Folding

The Mathinna Beds in the Mathinna area have been folded along sub-horizontal north-north-west trending axes as indicated by the distribution of the S_0 readings (see Figure 4). Evidence for these folds can also be seen in the vergence of parasitic folds (eg Golden Hinges, Jubilee) though in a number of cases (New Eldorado, North Eldorado) these parasitic folds are symmetric so no sense of vergence can be deduced.

Figure 9 is an interpretation of the structural geology of the Mathinna field. Four major anticlines have been interpreted from the vergence of parasitic folds in the mapping. This interpretation has some significant similarities to the mapping in Turner (1972).

S0/S1 relationships in the Golden Ladder adit indicate that steeply east-north-east dipping bedding is overturned and lies on the west limb of an overturned anticline whose relatively shallowly dipping eastern limb underlies much of the ground to the east.

West verging parasitic folds in the cuttings around the shaft and mullock quarry of the New Golden Gate mine indicate that there is a syncline underlying the Long Gully. East verging parasitic folds in the Golden Hinges adit indicate the existence of an anticline centred near (or just west) of the New Golden Gate shaft. This interpretation supports that of Twelvetrees (1906 a) who reported the existence of an anticline at the No 12 level in the New Golden Gate mine, though Finucane (1935) disputes this (without seeing the structure himself) stating that the folded surfaces are likely to be the S1 cleavage (ie kinked).

This interpretation of an anticline-syncline pair between the Golden Hinges and Golden Ladder adits ignores any structural dislocation on the Main Slide shear zone which probably has had at least two generations of movement, one being dextral wrench faulting and the other probably high angle reverse faulting (possibly syn-folding). It is unclear as to how much structural dislocation has taken place on the Main Slide shear zone.

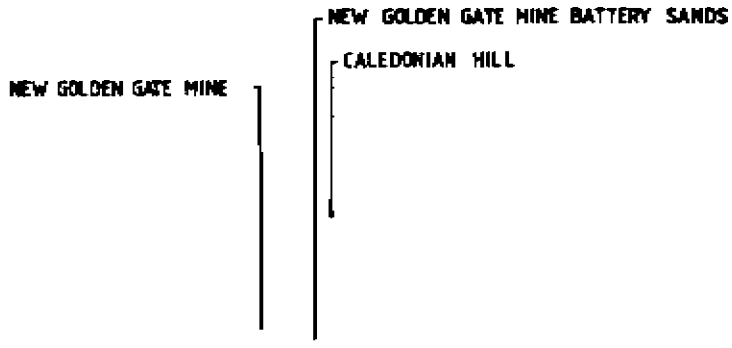

NEW GOLDEN GATE MINE BATTERY SANDS
CALEDONIAN HILL
NEW GOLDEN GATE MINE

Plate 3 **EL 17/91 "Mathinna" - looking north from Tower Hill Road**

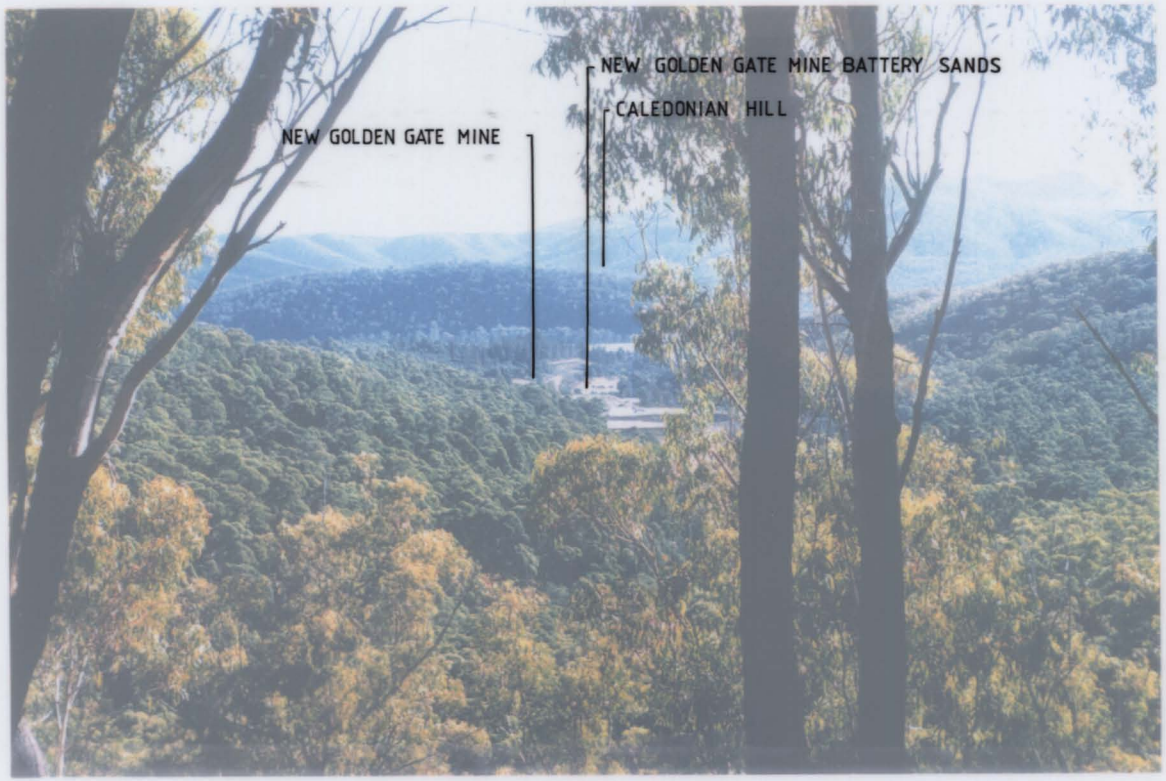


Plate 3 **EL 17/91 "Mathinna" - looking north from Tower Hill Road**

West verging folds in the North Eldorado adit support the existence of a syncline between it and the Golden Hinges adit. The positioning of a syncline here is somewhat problematic with structures (based on reconnaissance mapping) in the Miner's Dream workings indicating that such a syncline would be expected to lie east of the Miner's Dream.

The anticline shown running through the western end of the New Eldorado adit is possibly the same fold interpreted from structures mapped in outcrop and old workings south west of Jubilee. The syncline to the west is interpreted from bedding in the section 1734-G and Gladstone adits.

The major anticlines are considered to be asymmetric with a steeply dipping (or occasionally overturned) west limb and a shallow east limb. This east vergence is at odds with the regional interpretation of (McClenaghan and Williams, 1989).

Parasitic folds whilst present in much of the field are particularly common in Finucane's (1935) "zone of close folding" from which the name has been coined. The significance of these parasitic folds to mineralisation is elaborated in the section on veining.

The fold shown on Figure 9 passing just to the east of the Golden Stairs workings is based on very limited outcrop mapping.

The poor correlation between individual drill-holes on sections and between sections suggests that the rocks underlying the Township/Church Hill zone are folded. The only sections on which correlations appeared straight forward were the northernmost sections and especially 8200 N.

Cleavage

The dominant cleavage at Mathinna expresses itself as a spaced cleavage in siltstones and sandstones and slaty cleavage in shales. Regionally, it is not considered to be axial planar though in mapping at Mathinna the discrepancy is not obvious.

The second (S_2) cleavage was recognised by Keele (1994). This mapping felt confident to recognise this cleavage in only a few instances, significantly these adits (South Miner's Dream and North Eldorado) and outcrop on the Tower Hill Road lie on the central fault/fold zone and thus the cleavage is a localised structure possibly related to movement on the Main Slide shear zone or alternatively local tightening of folds.

Faults

Although not always recognisable, most faults probably had more than one phase and sense of movement. In most instances the only evidence of the sense of movement of a fault are slickensides developed on puggy planes within the fault. These slickensides may well be recording the latest phase of movement, possibly even as recent as normal movement under the extensional regime of the Tertiary, though the range in orientations of these slickensides from horizontal to vertical argues against that.

Dislocated quartz veins and drag on veins, bedding and cleavage are occasionally useful, however, the sense or direction of movement on most faults is indeterminable.

Poles to all faults mapped in the Mathinna area are plotted on Figure 5.

The timing relationships between different faults as well as different senses of movement on the same fault are largely impossible to determine due to the non existence of overprinting relationships. Keele's (1994) timing relationships are based on a very few subjective interpretations. The timing interpretations suggested here are based largely on overprinting vein relationships, the principle stress regime expected to produce such veining and the sense of movement and orientation of faults expected under such a stress regime.

This interpretation sees many broadly north-north-west (ie north to north-west) striking faults as commencing life as west directed high angle reverse faults which were activated under the same principal stress regime and at the same time as F1 folding ie, D1.

These faults were later re-activated as dextral wrench faults under the north-south principle stress regime of Findlay in (Taheri, 1992), ie D2.

This model would also account for the predominance of roughly east-north-east to north-earth striking faults and reefing elsewhere in the north-east (Denison, Lefroy, Beaconsfield) which would probably have been Riedel shears or extension fractures.

Veining

Evidence of the nature of quartz veining which was pursued by the early miners is hard to come by, as in those workings which can be assessed, such veins have usually been stoped out, whilst mullock heaps around inaccessible shafts usually contain a range of material. Nevertheless, significant amounts of information can be gained from both stoped out adits and mullock heaps.

The following classifications which were used in mapping are based largely upon Dowling and Morrison (1988):-

Buck Quartz	This style of veining is the most common, particularly as float. The quartz is milky to vitreous and is not uncommonly iron stained. The commonly brecciated appearance is presumably due to "fractures, spider veinlets or stylolites that cut the buck quarts" (Dowling and Morrison, 1988). Visible gold may occasionally be see on fracture surfaces in this style of quartz, however, most samples are barren. Large reefs generally consist of buck quartz with local zones with sulphides or comb textures.
Fibre Quartz	This style is very common in adits where it generally forms narrow (5 mm to 20 mm) 'leaders'. A number of instances of much broader fibre quartz veins are noted (eg part of Flat reef in Jubilee No 2 and in the Miner's Dream incline shaft). Fibres are elongate and grow perpendicular to the vein wall. In the Mathinna area these veins are commonly sub parallel to the cleavage or alternatively cross cut the cleavage as

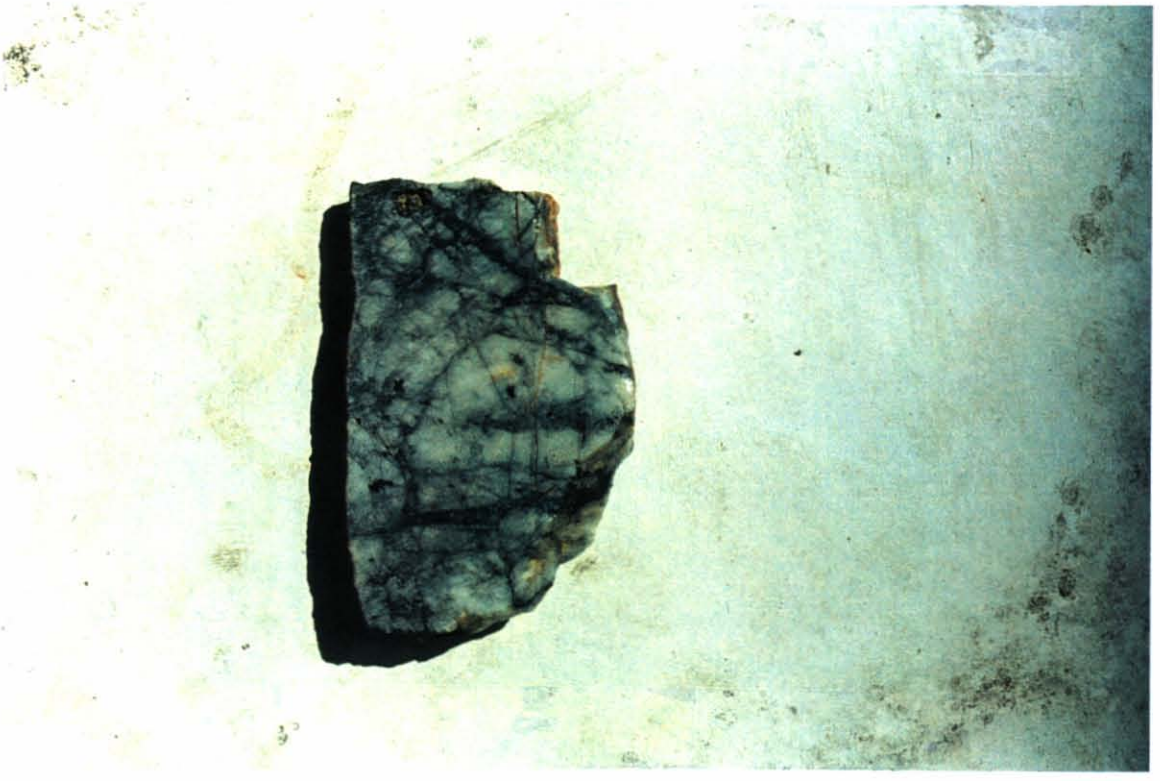


Plate 4 **Brecciated (Arsenopyritic) quartz.**
New Golden Gate Mullock, 20.0 g/t Au

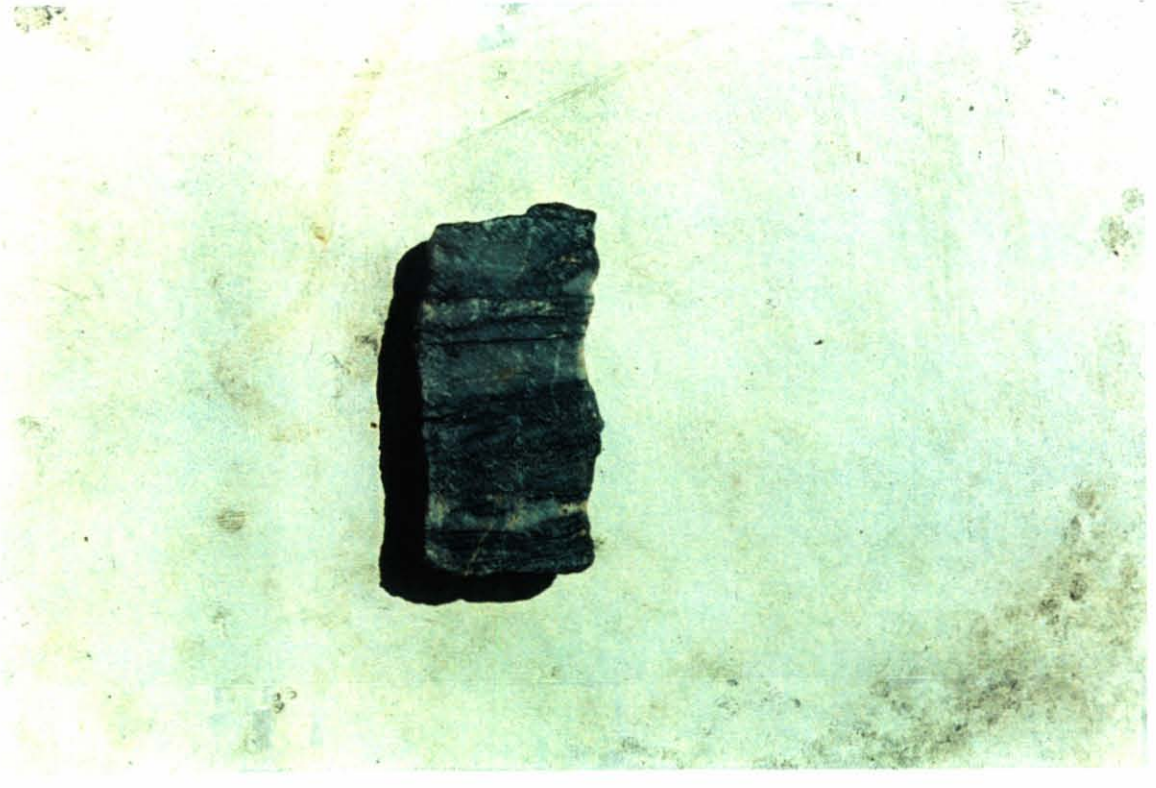


Plate 5 **Laminated (Arsenopyritic) quartz.**
Volunteer Consolidated Mullock, 64.3 g/t Au

extension veins. These veins can 'blow-out' into masses of bucky quartz. This style of veining is variably auriferous with the extension veins adjacent to auriferous reefs generally significantly auriferous themselves.

Laminated Quartz (Ribbon Quartz of Dowling and Morrison, 1988) (see Plate No 5)	This style of quartz is rare as float with samples from Mathinna area only observed on the Volunteer mullock heap. The textures in this style are defined by "sub parallel but discontinuous ribbons of schistose wall rocks or other relatively insoluble (arsenopyrite) phases within quartz walls". (Dowling and Morrison, 1988) Arsenopyrite bearing laminated veins are almost invariably significantly auriferous and were the ore of a number of mines at Mathinna.
Brecciated Quartz (see Plate No 4)	Examples of this style of quartz were found on the New Golden Gatedump. In this style buck quartz is irregularly cross cut by fine arsenopyrite veinlets. It too was the ore of a number of Mathinna Mines.
Replacement Quartz (not used in the sense of Dowling and Morrison, 1988)	A number of examples of quartz veining of a distinctly stratiform nature can be seen in the Mathinna area (eg North Eldorado). A similar vein in the Buckland adit at Mangana can be seen to be formed by the pervasive silicification of a sandstone bed. Similar silicification of shales can be seen at Mathinna in the core of DDH GG 1 and GG 2.
'Lode Cap'	This term coined by the author refers to the often strongly ferruginous float commonly seen around surface workings on reefs. The rock has a pseudo-clastic texture defined by pale clots (2 mm to 15 mm) in a ferruginous matrix. This rock is the 'gossan' which forms over the outcropping quartz reefs.
Quartz Stockwork (see Plate No 6)	This style of quartz veining is more common in the more coherent siltstone and sandstone units. Auriferous samples were collected in a number of localities, the most significant being the Chinamen's Hill sample

Apart from the 'flat' and 'saddle' reefs discussed later, most auriferous quartz reefs in the Mathinna area are hosted within joints or fault zones which are referred to in the historical literature as 'reef channels'. These reef channels often have a sharply defined 'wall' on one side and a less sharply defined wall on the other. Although these faults may have considerable along strike continuity, the gold bearing shoots are often short with the rest of the 'reef channel' filled with barren bucky quartz and/or 'lode slate', puggy strongly sheared wall rock.

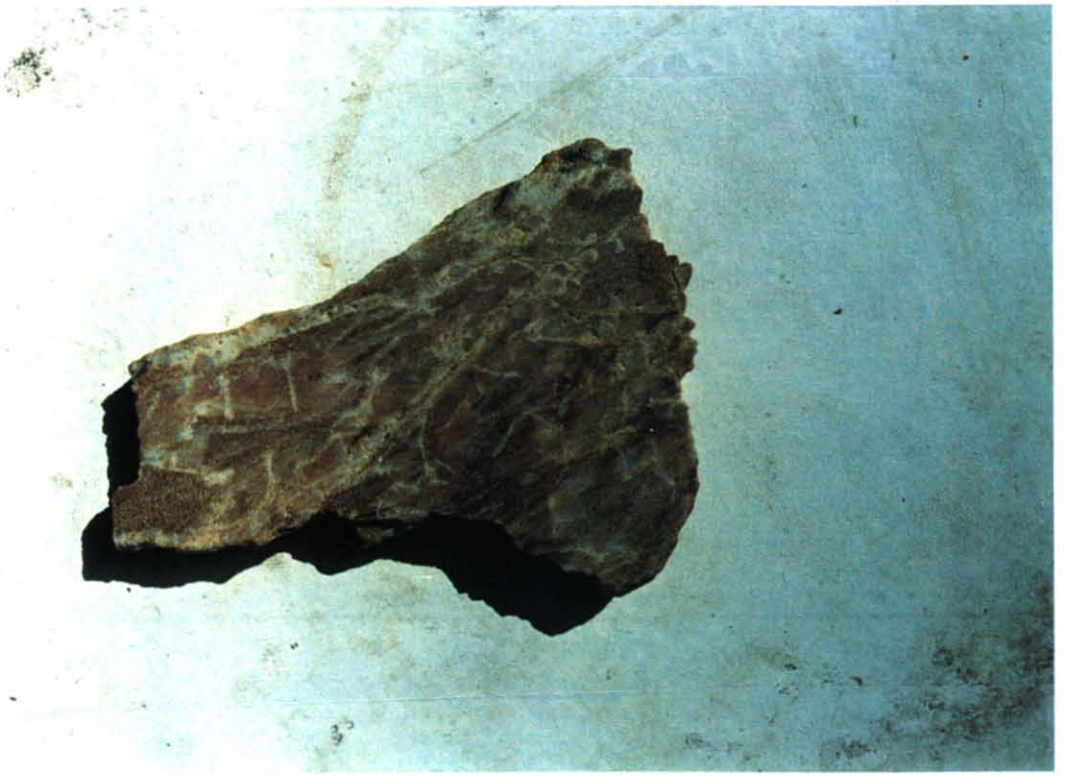


Plate 6 **Quartz stockworked siltstone from Chinamen's Hill No 1 Costean, 20.8 g/t Au**

Plate 7 **EL 17/91 "Mathinna" - drilling MT 1, looking west to Ben Lomond**

The longest reefs followed are the East Reef on the New Golden Gate (155 m) and Lower West Reef in the New Golden Gate - North Golden Gate mines (310 m). 'Ore shoots', are generally sub-vertical as shown by the long sections of stoping on the New Golden Gate mine. The City of Hobart mine worked a reef which was auriferous along strike for only 36 m but continued to a depth of 176 m.

The average strike extend of reefing at the New Golden Gate mine was 50 m yet these reefs were worked individually vertically over 200 m.

The range of orientations of the major reefs at Mathinna have previously been described as random (Turner, 1972). The orientations of the major reefs/veins of the Mathinna field are shown in Figure 6 with the full data set for all vein orientations (including narrow leaders, extension, veins etc) for the Mathinna field (including data from the Jubilee area in EL 22/92).

Access to reefs and associated structures in the City of Hobart - Volunteer Consolidated area is limited, hence it is difficult to interpret the structural significance of these reefs. Access is much better to veins and reefs east of the City of Hobart.

Mapping in the Jubilee No 2 adit in EL 22/92 to the immediate south of EL 17/91 and the Horseshoe open stope (both within the zone of close folding; Finucane, 1935) indicates that at least some reefing is conformable to folded bedding.

A similar conclusion may be drawn as to the gross relationship between bedding and veining in the Miner's Dream workings though the actual reef has been stoped out.

In the New Eldorado adit further north in this zone of close folding, the fold axis of the reef at the west end of the main cross cut is very similar to both the mapped fold axes of bedding and the fold axes of bedding apparent from stereoplots.

These reefs in this "zone of close folding" have a number of the characteristics of saddle reefs, particularly those described the interpretation of the genesis of the Victorian saddle reefs by Cox et al (1991). In their interpretation saddle reefs form where there is dilation of bedding on fold hinges or on parasitic folds. Saddle reefs are often associated with bedding-concordant high angle reverse faults where bedding is steep, or bedding-discordant reverse faults which propagate across bedding planes (Cox et al 1991).

Cox et al (1991) show that the constraints on the timing of mineralisation with regards to the regional deformation history is tight and go on to state the following:-*"Although much of the mineralisation developed late during regional deformation, some early bedding - concordant veins have formed early during folding, and may even pre date some fold growth. The initial development of saddle reefs and their associated bedding-concordant fault veins is clearly related to flexural slip during fold tightening. However the further development of many of these structures to produce enlarged saddles, neck reefs and associated bedding-discordant fault lodes has continued after folds have locked up and cleavage development had ceased.*

Major bedding discordant fault lodes, such as those of Ballarat East and the Castlemaine area, cut across folds and thus also have movement histories post-dating the major part of fold growth. The kinematics of the fault zones is consistent with their development accommodating further regional east west shortening as folds have begun to lock up. The structures of extension vein arrays associated with fault lodes are consistent with the large scale timing evidence".

The latter extension vein assays are described by Cox et al (1991) as tending to be sub-horizontal due to the sub-vertical orientation of the minimum stress (σ_3).

The sub-horizontal or folded reefs in the Jubilee No 2 adit and Horseshoe open stope are associated with sub-vertical extension veins with an average strike of 050° (TN). In the Horseshoe workings these extension veins have an ambiguous overprinting relationship with the bedding-conformable reef whilst in the Jubilee No 2 adit the extension veins appear to be either coeval with the partly bedding conformable Flat Reef or pre-date it.

Although this would appear to be counter to the expected orientations of these extension vein assays this difference can be explained as follows:-

The formation of sub-horizontal reefs concordant to folded bedding requires both a horizontal principle stress (σ_1) regime directed perpendicular to the fold orientation and a sub-vertical minimum stress (σ_3). The first requirement is considered to remain satisfied throughout the formation of the sub-horizontal reefs and associated sub-vertical extension vein arrays, however the magnitude of the local minimum (σ_3) and intermediate (σ_2) may have been similar so that the opening of the extension veins perpendicular to a sub-horizontal north-north-west striking minimum stress may have been sufficient to increase the magnitude of the stress in this orientation so that it exceeded the magnitude of the intermediate stress and thus the orientations of the new minimum and intermediate stresses had effectively swapped. This flipping of (σ_3) and (σ_2) may have occurred more than once or in the opposite direction though this has not necessarily taken place.

It is clear that some tightening of folds continued after the formation of both the extension vein arrays and sub-horizontal reefs. Evidence for the former instance is the fact that some extension vein arrays are folded whilst evidence for the latter is seen in ptygmatically folded small veins common where sub-horizontal veins feather out in the Jubilee No 2 adit.

Cleavage formation was either coeval with, or postdated sub-horizontal reef formation as it deflects around these veins rather than being truncated by them.

The other major set of narrow veins apparent from mapping strike 330° TN. These are sub-parallel to the cleavage, however, it is clear in a number of places that these veins are post cleavage and are just exploiting the existing cleavage elsewhere. In most instances, fibres in these veins are perpendicular to the vein orientation and thus extensional, however, in parts (eg in outcrop near Horseshoe) these veins have been formed as shear veins under a principle stress regime oblique to the vein orientation. The sense of movement on these veins is ambiguous.

This vein set post dates the earlier vein set associated with the sub-horizontal reefs.

Conclusion

The dextral jog model for mineralisation at Mathinna (Findlay in Taheri, 1992) sees the main lodes as Riedel shears to the north-north-west trending dextral faults. Such fault movement would require an approximately north - south principal stress regime.

From the above discussion it is clear that there were two distinct phases of deformation in the Mathinna area with each characterised by the orientation of the principal stress regime.

The earlier phase occurred under a principal stress regime striking 060° (TN) and saw the formation of the sub-horizontal and bedding conformable reefs and the sub-vertical extensional vein set striking 060°. Vein formation commenced whilst folding was still taking place. The later phase occurred under a principle stress regime which probably ranged from around 010° (TN) to 330° (TN) and possibly slightly further west. The second set of extensional veins formed under this regime as did the dextral wrench movements on the Main Slide shear zone.

Strategic sampling (channel and rock chip) of both vein sets indicates that both are auriferous as are the sub-horizontal or bedding-conformable veins at the Jubilee No 2 adit (Flat Reef), Horseshoe, Miner's Dream and New Eldorado.

The most important question to be asked now is in which of these two phases of deformation did the reefs at the New Golden Gate - North Gate form?

Mapping was undertaken in the adit level of the New Golden Gate mine in spite of the mouth to this adit being collapsed.

Access was gained via steel rope ladder through an old open stope in the Mullock quarry to the adit level. This allowed the mapping of the upper levels of the Loanes Reefs, Central Reefs and Upper Western Reefs and associated structures and veining. That adit map is included in Appendix E.

Both sets of sub-vertical veins are present in the adit level as are a few sub-horizontal extensional veins. Cross cutting relationships here are hard to determine due largely to weathering.

However, in the adit level the two sets of extensional veins appear to have rotated clockwise $\approx 30°$ with the earlier set striking east-west and the later (more common in the adit level than the earlier set) set striking north-south. This feature mirrors an apparent rotation in bedding, and cleavage and the dominant faulting orientation. It is also suggested by Twelvetrees (1906 a) reporting of anticlines at about the same level in the shafts of both the New Golden Gate and North Gate mines.

There are a number of further points relevant to understanding the New Golden Gate reefs:-

- The ore shoots particularly in the New Golden Gate reefs pitch steeply to the south with the Main shoot on the Main and Loanes reef occurring where they meet but also parallel and near to a north-north-west trending fault (Main Slide?) The main shoot on the East Reef also parallels the intersection of the north striking reef channel with the north-north-west striking Main Slide fault (a single fault on the north eastern side of the Main Slide shear zone).

In some cases, the East Reef wraps around dextrally into the Main Slide fault whilst in other cases it is reported as passing through unaffected.

- This is not the case with the Zig Zag Reef on the No 6 level which is faulted by north-north-west striking dextral wrench faulting. The Zig Zag Reef lies to the south-west of the Main Slide fault near to a parallel Second Slide.

- Sense of movement indicators in the north-north-west trending faults in the Golden Hinges adit (the western edge of the Main Slide Shear Zone) include both dextral wrench and dip slip (reverse?) though relative timing is not obvious.

- The main reefs in the New Golden Gate mine are shown by Twelvetrees (1906 a) to be grossly conformable to bedding.

- Mineralisation from the New Golden Gate (see Plate 4) is hosted in arsenopyritic>pyritic veinlets in brecciated quartz reef. This gold-sulphide was quite possibly introduced as a latter phase infill during brittle deformation.

The dextral jog model would see auriferous quartz reef formation in ares of dilation during dextral movement on the faults of the north-north-west trending Main Slide Shear Zone. This model would explain the steeply pitching ore shoots. The ambiguous cross cutting nature of reefs and north-north-west trending faults may be explained by quartz reefing occurring in a number of episodes with dextral movement within the shear accommodated by different individual faults. In this model the quartz reefs and gold mineralisation in the New Golden Gate mine formed in the later phase of deformation. Since the earlier phase can be shown to have introduced gold quartz mineralisation into structures elsewhere in the field, the conclusion must be that there were two phases of gold mineralisation.

The earlier phase of extensional veins (east-west) are auriferous in the walls to Loanes Reef as are the later extensional phase in the adit walls near Loanes Reef so this conclusion is valid. This is also supported by sampling elsewhere at Mathinna.

The high angle reverse fault model presented speculatively in Figure 16 would see the reefs as both grossly bedding-conformable and bedding-discordant high angle reverse faults which formed under east-west compression during the earlier phase of deformation but after folding has ceased. Such a model finds it difficult to explain sub-vertical ore shoots.

It is also possible that the quartz reefs of the New Golden Gate formed in the earlier phase with gold sulphide introduced into the brecciated quartz in the later phase.

In the light of the recognition, early on in mapping, of the significance of the earlier 060° - 240° compressive phase to vein formation, an attempt was made to determine whether the New Golden Gate reefs were formed in this phase. That this attempt was unable to do so lends weight both to the model which sees gold in New Golden Gate lodes as having been deposited in the dextral wrench faulting phase, and to the conclusion that there were two phases of gold mineralisation at Mathinna.

4.0 EXPLORATION PHILOSOPHY

Summary reports on historical gold mining in the north-east have stressed the generally shallow depths at which mining ceased with reasons generally cited as falling grades, pinching reefs etc. A notable exception to this is the New Golden Gate which was payable to a depth of 600 metres.

It is significant to note that the New Golden Gate was one of the few gold mines to use cyanidation to extract refractory gold.

It is considered that the shallow nature of mining in the Mathinna area is an artefact of the mining and/or metallurgical processes available at the time. Known reefs may continue at depth or undiscovered subcropping reefs may exist.

Initial reconnaissance work indicated the existence of sets of narrow sheeted veins in outcrop and old workings which may not have been sufficiently rich enough for early miners but which may prove economic using modern mining techniques.

It was concluded that outcropping or sub-cropping mineralisation in either narrow high grade reefs or broader sheeted vein sets should have a geochemical signature.

Priority was placed on locating such a shallow deposit amenable to open cut mining before money was committed to deeper diamond drilling of the more problematic high grade reef targets under old workings.

5.0 PREVIOUS EXPLORATION

5.1 Introduction

The Mathinna goldfields has seen two phases of exploration. The relatively intense earlier phase commenced in the second half of last century and continued to the early part of this century. This work was carried out by prospectors alone or in groups utilising the techniques of panning, loaming and dollying with sub surface information provided by adits and shafts. All gold deposits in the north-east were found in this phase using these techniques.

This early phase is well summarised in early government reporting by Montgomery (1892), Twelvetrees (1906) and Finucane (1935). The best summaries are those of Taheri (1992), McOnie (1983) and Newnham (1992), though in the authors experience a considerable amount of further detail, sometimes geologically relevant, might be found by systematically searching through the early copies of the "Examiner" newspaper.

The second (modern) phase is that which has taken place in the second half of this century. In contrast to the first phase, this second phase has been generally sporadic and poorly focussed and has not resulted in the discovery of any gold deposits.

Almost all significant previous exploration in the Mathinna area is included in Section 5.0 "Review of Previous Work: Alberton-Mangana Zone" in Newnham (1992). That comprehensive summary is presented as Appendix A.

The only work not covered in this Review is perhaps the most significant.

In 1989 Epoch Minerals Exploration NL carried out a RAB drilling programme around the shaft of the New Golden Gate mine.

Eleven holes for 825 metres were drilled. The logs, assays and location plan for these holes are included as Appendix B.

Most holes reported anomalous gold mineralisation though there are some significant discrepancies between the Department of Mines assaying and Analabs check assaying (both fire assays).

Significant intersections were made in a number of holes. These generally correspond to known reefs which have already been intersected in the upper level but indicate some potential.

Interpretative sections based on both the drill logs and assays and the historical information on the upper levels of New Golden Gate mine are also included in Appendix B.

6.0 WORK CONDUCTED

6.1 Introduction

The major initial tools used in exploration at Mathinna were gridded soil sampling, with low detection assaying for gold and arsenic, and the geological mapping of old workings.

Soil sampling was chosen as only parts of the Mathinna area have seen small soil surveys and in these gold was not analysed.

The Mathinna area contains a number of accessible adits, generally perpendicular to the strike of bedding and the dominant vein orientation. These adits provide a relatively uninterrupted cross-section of the structure of the host rocks and in a number of cases they also allow access to areas of previous mining ie stoping, winzes and rises etc so that the style of mineralisation and structural setting may be studied.

Many adits were geochemically sampled with either rock chips or, when warranted, channel samples taken.

Both the soil sampling and geological mapping/sampling led to the definition of a number of anomalies. These were followed-up initially with infill soil sampling. At the Chinamen's Hill prospect costeans were dug and sampled in order to determine the source of the soil anomalies.

Following all of this work, those anomalies with the potential to overly mineralisation of a style amenable to open cut mining were drill tested.

6.2 Historical Research

Prior to the commencement of fieldwork time was spent locating and studying the available data on the early mining activities in this area as well as the results of more modern exploration.

This work was aided by a number of excellent company compilations, namely Newnham (1992) "Review of Previous Exploration Information (for) Exploration Licences 22/92 and 23/92" for Newcrest and McOnie (1983) "A Review of the gold potential of north eastern Tasmania" for Goldfields Exploration as well as the government reports generated as part of NETGOLD initiative, namely Taheri (1992) "North east Goldfields: a summary of the Tower Hill, Mathinna and Dans Rivulet Goldfields".

These compilations are all largely text with relatively few large scale maps and no small scale maps.

A number of the old government reports cited in their compilations contain quite detailed small scale maps of the old workings. Most of these, in addition to a number of old mine plans of variable quality and level of detail, are available in larger scale format in the Mine Department's archives. The maps accompanying Finucane (1935), Twelvetrees (1906a, 1906b, 1970 and 1914), Montgomery (1892), Reid (1925) and Nye (1924) are most useful for the Mathinna field.

The best map(s) for each old working were copied and all relevant data from the reports of both old mining activities and modern exploration were compiled onto those. These maps served as the basis for later work, particularly adit mapping and the positioning of soil sampling grids. The most significant compilation map is provided in Figure 14 which is an enlarged scale version of the compilation of all data on the New Golden Gate mine onto the (a slightly revised) isometric plan of old mine workings compiled by Henderson in 1938.

In most cases these old plans have been reduced and shown on the 1:1000 and 1:10000 geological mapping in Figures 9 to 13.

6.3 Gridded Soil Sampling/Stream BLEGS

Gridded soil sampling was conducted over effectively all areas of known old workings at Mathinna within EL 17/91. Areas gridded and sampled are shown on the overlay to Figure 2.

The Chinamen's Hill area was targeted as it lies on or adjacent to the strike extensions of the major structural lineament which appears to control the location of mineralisation at the New Golden Gate mine.

In order to help constrain the gridded areas to the east and south-east of Mathinna, five stream BLEG samples were taken (locations shown on the overlay to Figure 2).

BLEG samples were analysed as follows:-

Active stream sediment was sieved through 2 mm mesh and the 2 kg sample bottle rolled for 24 hours. Apart from gold to 1 ppb, analysis was also conducted for As, Ag, Sb, Cu, Pb and Zn. One of the eight samples was taken from Long Gully Creek where the Tower Hill road crosses the creek, downstream from the Jubilee mine, as an orientation sample.

All grids have base lines professionally surveyed (by Hamilton Surveys, Bicheno) with baselines tied to AMG through State control. Wooden survey stakes were placed every 50 metres with short star pickets driven into the ground (and protruding around 5 cm) every 200m. Andrew Hamilton (pers. comm.) asked that verification surveys connecting the loose ends of base lines be carried out to round off any errors however, the accuracy is more than sufficient for this type of work.

A total of 8.2 kms of baseline were surveyed in EL 17/91 at Mathinna.

Baselines at Mathinna were surveyed AMG north-south with baselines orientated so that wing lines would be perpendicular to the dominant strike of significant mineralisation. Although sub east-west reefs are significant eg Volunteer Consolidated, most reefs, including the New Golden Gate reefs, are sub north-south striking at Mathinna.

Baselines were planned so that their AMG easting was a multiple of 100 m whilst wing lines were planned so that their northings were multiples of 100 ms (50 ms for infill wing lines). The coordinate system for sample location was thus set-up so that their coordinate is nominally AMG (minus the prefix). For example, sample location 6700N,

3500E is actually, nominally, the AMG point 5406700 mN, 573500 mE (adding prefix 540 to northings and 57 to eastings).

Surveying of baselines took place in October to December 1994.

Soil sampling was carried out by a team of up to 10 field assistants working in pairs.

An initial sample spacing of 50 m on 100 m spaced wing lines was chosen as optimal given target size requirements. Infill sampling on 100 m x 25 m and/or 50 m x 25 m was carried out in anomalous areas defined in the 100 m x 50 m sampling.

Sample locations on wing lines were measured using a polychain, suunto compass and clinometer with slope corrections for distance made in the field.

After removing surface litter each soil sample was taken either from shallow B-horizon (top 15 cm of soil) using a shovel or mattock, or augered to a depth of 0.5 m to 0.8 m or bedrock with a 4" manual soil auger (deeper B-horizon).

Soil samples were sieved on site through 2 mm sieves and a sample of nominally 1 kg taken. Sieving was made possible by the dry conditions in October to December 1994. Following heavy rains in late January some samples had to be submitted unsieved with sieving undertaken by the laboratory. Sample sites were marked with plastic pin markers.

Assaying was contracted to Minlab in Perth WA. All samples were assayed for gold and arsenic. Gold analysis was by fire assay - AAS on a 50g charge with a detection limit of 1 ppb whilst arsenic was analysed by perchloric acid digest - AAS with a detection limit of 10 ppm.

Within the EL 17/91 part of gridding at Mathinna, a total of 1048 soil samples were taken on the 100 m x 50 m grid (1030 of these were from EL 17/91 and 18 from ML 43 M/89. This work defined a number of broad anomalies, the most striking being the western side of Caledonian Hill bordering the battery sands from the New Golden Gate mine (see Figure 18). Twenty-one deeper ($\approx$ 0.5 to 0.8m) B-horizon soils were taken with a 4" manual soil auger on the Caledonian Hill as well as on Church Hill ridge to the west of the mine in order to check for possible contamination by wind blown battery sands. Contamination of the shallow B-horizon soils was confirmed by the lack of repeatibility of the gold assays from the shallow B-horizon soils in the augured samples. Arsenic results were similar, probability reflecting arsenic's relative mobility in groundwater. 263 contaminated shallow B-horizon sample sites on Caledonian Hill were re-sampled with 265 augured deeper B-horizon samples. Four sample sites were inadvertently sampled twice with augered sampling with some minor differences between results (see Appendix D).

The 66 existing shallow B-horizon sample sites on the Church Hill (mostly probably contaminated) were also re-sampled with augered deeper B-horizon samples with the rest of the Church Hill - Township area sampled with deeper augured B-horizon samples on a 50 m x 25 m grid making a total of 476 samples (61 in ML 43 M/89 and 415 in EL 17/91).

In addition nine contaminated sites north of Jubilee (on lines 5200N, 5100N and 5000N) were re-sampled with the auger and two anomalous shallow B-horizon sites in the Horseshoe area were checked.

A number of the anomalous values in the Volunteer Consolidated - Old Boys area were shown to be due to contamination by mullock. It was considered that the results of even augered samples would be dubious in this area.

Infill soil sampling on 100 m x 25 m and 50 m x 25 m spacings was undertaken in the Horseshoe, City of Hobart and Jubilee North areas. A total of 171 samples were taken. Although most were shallow B-horizon the City of Hobart and Jubilee North samples were augered.

On the Chinamen's Hill grid a further 154 infill samples were collected.

6.4 Geological Mapping

Mathinna has previously been mapped to 1:6300 by Geophoto Resources Consultants (Turner, 1972) with prospect scale (1:750) mapping in the Jubilee and City of Hobart-Old Boys-Volunteer Consolidated areas (Turner, 1974). This mapping is of good quality with emphasis on surface structures.

Geological mapping conducted by Resolute Samantha Limited placed a strong emphasis on adit mapping. That mapping, in conjunction with mapping of road cuttings and other strategic outcrops is presented at 1:1000 scale for that part of the Jubilee-New Golden Gate-Golden Stairs trend in EL 17/91 as well as a less detailed map of Chinamen's Hill, with compilation of all data at Mathinna at 1:10000.

Individual adits were mapped to varying degrees of detail. Adit sections prepared in this work are presented in Appendix E.

Considerable attention was paid to geological structures. Structural data is presented on stereoplots for each old working in Appendix E and is compiled onto Figures 4 to 7.

The three 'Mines Department" DDHs drilled around the New Golden Gate mine were logged with twelve samples from the two southern holes, GG 1 and GG 2, assayed for gold and arsenic.

In most adits/old workings, representative rock chip samples were collected. 101 rocks were submitted for analysis with 97 of these analysed for a suite of elements other than gold and arsenic (Ag, Sb, Cu, Pb, Zn, Fe, Mn, Bi, W) with an additional four assayed for Au and As alone.

A number of samples which had been assayed were 'dollied' and there was shown to be a rough correlation between the amount of gold in the pan and assay results.

Based on this orientation work, rock samples were 'dollied' and visually appraised. This was not done for cost saving but rather for the benefit of knowing very quickly if veins or reefs mapped that day were auriferous or sulphides.

6.5 Aeromagnetics Enhancement/Interpretation

In conjunction with exploration on adjacent ELs 26/94, 27/94 and 28/94, the newly acquired (Tas. Govt survey) aeromagnetic data was processed, enhanced and interpreted by John Ashley of Southern Geoscience Consultants in Perth, WA. His interpretative report is included as Appendix G. In addition, a full set of the slides of the enhanced images produced in this work has been lodged with Mineral Resources Tasmania. A list of those images is included in Appendix G.

In addition a 1:10000 Contour of Magnetic Intensity plan was prepared for the immediate Mathinna area (in Figure 15).

6.6 Channel Samples

10.30 metres of channel sampling (8 samples) were taken using an electric pneumatic chipper with power provided by a generator. Sample locations are shown in Appendix H.

7.50 m (5 samples) were taken from the Horseshoe adit/open stope with the remaining 2.80 m (3 samples) taken from outcrop near 5090 N, 7475 E.

Sampling of the Horseshoe adit was conducted in order to ascertain the potential for there to be lower grade selvedges to reefs in the "Zone Of Close Folding" whilst the outcrop was sampled to test for mineralisation in a sheeted vein system.

6.7 Costeans

Three costeans totalling 180 metres were dug across two soil geochemical anomalies on Chinamen's Hill to provide access to bedrock so that the source of this anomalism could be determined. Only one costean provided good enough exposure for mapping to be warranted.

Locations of the No 1 and No 2 costeans are shown in Figure 8 with sample locations and results in Appendix I.

In Costean No 1, 42 m of channel sampling for 24 samples was conducted with one sample both dollied and submitted for assay.

In Costean No 2, 50.5 metres of channel sampling for 25 samples was conducted with 3 rock samples submitted for assay.

In Costean No 3, 4 rock samples were dollied.

At the time of drilling MT 26 it was realised that the No 2 Costean had been placed 25 metres to the east than had been planned. It was decided to extend the costean the 25 metres to the west. A further 26 metres of channel sampling for 17 samples were collected but have not yet been assayed. In addition, two rock samples were also collected and not assayed yet.

6.8 Drilling

A total of 22 RC holes for 1757 metres were drilled on EL 17/91 using Diamond Drilling Tasmania's UDR 650. The attributes of each hole are listed in Table 1.

Holes were sampled in the following way:-

At the time of drilling, a 4m composite spiked (40 mm PVC pipe with tapered end) sample was collected and assayed for Au and As. Anomalous composites were subsequently riffle split over 1 m intervals and again assayed for Au and As.

20 Riffle split 1 m samples were submitted to Analabs as checks against Minlab's work.

All but two of the holes were targeted principally on soil geochemical anomalies.

The exceptions were MT 24 and MT 26.

MT 24 was targeted to follow up the anomalous intersection in Tasmania's Mines Department DDH GG 3 of 3.15 m @ 7 dwt Au. The hole was targeted such that it should intersect the up dip extension of an (interpreted) steeply ($\approx 70^{\circ}$) southerly pitching high grade shoot in a steeply east dipping north striking reef at a depth of 80 m at which point the intersection would be 70 m down plunge from MT 24. This modelling is based on the steeply (70°) southerly pitch of high grade shoots in the New Golden Gate reefs.

MT 26 was targeted on the anomalous channel and rock samples taken from the Chinamen's Hill No 1 Costean.

Of the holes targeted principally on soil geochemical anomalies, MT 14 and MT 15 were also targeted on the band of quartz in slate reported from the 1928 DDH (Finucane, 1935).

MT 2 was also targeted on the southern strike extension of the Enterprise Reef. MT 7 and MTs 5 and 6 were also targeted on the southern and northern (respectively) strike extensions of the Golden Stairs reef.

TABLE 1

RESOLUTE RESOURCES LIMITED

Project MATHINNA / MANGANA

DRILL HOLE SUMMARY

Tenement No. EL 17/91

Order No.	Prospect	Hole No.	Coordinates		Incl.	Azm.	Depth	Sample No.s		RL m.s.	Date	Total Prog.	Comments
			North	East				From	To				
K09425	TOWNSHIP - CHURCH HILL	MT1 540	7703	514131	-60	090	79	381001	381020	308			
"	"	MT2	7710	4168	-60	090	84	381021	381041	313			
K09426	"	MT3	7800	4268	-60	270	85	381042	381062	309			
"	"	MT4	8000	4296	-60	090	85	381063	381083	287			
"	"	MT5	8200	4195	-60	090	67	381084	381100	292			
"	"	MT6	8193	4225	-60	090	60	381101	381115	292			
"	"	MT7	8085	4200	-60	090	84	381116	381136	295			
"	"	MT8	8000	4368	-60	270	63	381137	381152	283			
K09427	"	MT9	8000	4265	-60	270	77	381153	381171	288			
"	"	MT10	7985	4188	-60	090	79	381172	381191	291			
"	"	MT11	7105	4325	-50	270	84	381192	381212	311			
"	"	MT12	7585	4380	-50	270	85	381213	381233	310			
K09428	"	MT13	7335	4290	-58	270	88	381234	381255	329			
"	"	MT14	7800	4187	-60	090	79	381256	381275	310			
"	"	MT15	7805	4150	-55	090	97	381276	381299	309			
"	"	MT16	7815	4115	-55	090	79	381300	381319	305			
		MT17											DRILLED ON OTHER TENEMENT
K09429	TOWNSHIP - CHURCH HILL	MT18	7905	4176	-55	090	77	381320	381338	303			
K09429	"	MT19	7910	4136	-57	090	70	381339	381356	301			
"	"	MT20	8193	4255	-60	090	54	381357	381370	292			
"	"	MT21	8193	4282	-60	090	67	381371	381387	292			
		MT22											DRILLED ON OTHER TENEMENT
		MT23											" "
		MT23(B)											" "

TABLE 1 CONT.

RESOLUTE RESOURCES LIMITED

Project MATHINNA/MANGANA .

DRILL HOLE SUMMARY

Tenement No. .....

Order No.	Prospect	Hole No.	Coordinates		Incl.	Azm.	Depth	Sample No.s		R.L. mS	Date	Total Prog.	Comments
			North	East				From	To				
K09430	TOWNSHIP-CHURCH HILL	MT 24	6751	4265	-50	090	124	381388	381418	340			
		MT 25											DRILLED ON OTHER TENEMENT
"	CHINAMENS HILL	MT 26	9900	3408	-50	090	90	381419	381441	354			

Plate 8 **EL 17/91 "Mathinna" - drilling MT 2, looking south west towards Eldorado Ridge**

Plate 9 **EL 17/91 "Mathinna" - drilling MT 4, looking east**

7.0 RESULTS

7.1 Historical Research

Much of the historical research focussed on assessing the potential of the reefs worked in the New Golden Gate and North Golden Gate mines. The compilation plan was based upon an exhaustive search of all old mine plans in the 'Mines Department' archives as well as the information in the old reports. A number of significant discoveries were made, particularly from information contained in unpublished mine plans.

There has been significantly more mining conducted in the New Golden Gate mine than shown on the long or cross sections generally referred to. This extra work is that carried out in the 1920's by Edward Moses and party and the Golden Gate Consolidated (GGC) NL (Finucane, 1935). This work is described to some degree in Finucane (1935). One of the more significant aspects of these poorly documented reefs (Zig Zag Reef, New West Make) is that they lie to the south west of the "Main Slide" which was considered by some in the early days to either truncate the southern end of the Low East Reef or control its location (ie major fluid route).

The role of the "Main Slide" appears to be overstated. It would appear to be only one of a number of north-north-west striking faults within a major shear zone whose western edge can be seen in the Golden Hinges adit.

The Zig Zag reef is shown as having been faulted by a north-north-west trending dextral wrench fault with Finucane (1935) referring to "greasy slides" between faulted blocks.

A number of horizontal 'bore holes' (presumably diamond drill holes) were drilled eastwards from various plots in the North Gate mine. One of these, on the No 11, "1400 level", intersected payable quartz. A prospecting drive in 1928 was extended along this bore hole and encountered a 1.05 m wide reef running 1.8 to 6.8 g/t Au. A cross cut extended eastwards from the north and of the drive on the West Reef on this level also intersected a significant reef with width up to 3.3 m and (presumably grab) assays up to 2 oz/t Au though it is reported as dropping in grade to the north and south. Both of these intersections would appear to be the northern strike extension of the East Reef from the New Golden Gate mine.

The percussion drilling programme conducted by Epoch in 1987 had a best intersection of 8 m @ 10.7 g/t Au in PDH 5. This intersection appears to be of the Central Reef (see interpretative sections in Appendix B).

The Central Reef was cut by the adit level, on which it was driven along north and south for short distances, and Level 2 where it appears to have been barren. It has not been intersected south of the 25 S section which the PDH 5 intersection lies. PDH 7, 50 m north along strike intersected 28 m @ 0.54 g/t Au which may include the Central Reef. The Central Reef is considered (Finucane, 1935) to join with the Main Reef on Level 3.

Other mines in the field considered to have potential at depth based on the old reports and plans are the Volunteer Consolidated, City of Hobart, Caledonian and Jubilee mines with the Volunteer, Enterprise - Golden Stairs, New Eldorado and Miners Dream also worth more attention.

The above discussion has focussed very briefly on just a few significant points from this historical work. There is much that could be added.

7.2 Gridded Soil Sampling/Stream Blegs

The Stream Bleg sampling returned a 280 ppb Au for the Long Gully orientation sample (379513). The three samples taken from the creeks in the south eastern corner of the EL were also weak to moderately anomalous (12, 9 and 14 ppb Au from samples 379509, 379510 and 379511 respectively; see the overlay to Figure 2 for sample locations) whilst 379512 returned a background 1 ppb Au result.

As noted in section 6.3, initial shallow B-horizon soil sampling defined a broad area of Au and As anomalism on Caledonian Ridge (our term) to the east of Long Gully with patchy but significant anomalism on the ridge between Long Gully and Black Horse Gully. Subsequent resampling at depth using a soil auger returned more realistic Au results though As values remained elevated. Infill sampling to the south on lines 5000 N, 5100 N and 5200 N utilised augered sampling of sites between shallow B-horizon sites. The equivalence of these two sets of data and the fact that both methods sampled B-horizon soils indicates that both shallow B-horizon and deeper augured B-horizon results can be directly compared. Similar sampling by Geophoto (Turner 1972, 1974) around Jubilee indicates that away from ares of contamination the results of the two sets of As results can also be directly compared.

The soil sampling defined a number of significantly anomalous zones (see Figures 18, 20, 22 and 23). These have been termed (north to south) the Chinamen's Hill, Township/Church Hill, and Horseshoe anomalies. The latter anomaly is the northern end of the Horseshoe/Telegraph/Jubilee anomaly which extends and strengthens into EL 22/92. A number of other more discreet and/or lower tenor anomalies were defined including City of Hobart South, Caledonian Hill and South Gate.

These significantly anomalous areas were to be the focus of subsequent work and described as follows:

Chinamen's Hill

This zone extends almost continuously in an north-south direction for 600 m before being truncated by a perched river terrace, whilst to the south it is truncated by the South Esk River. The zone contains coherent highs towards the northern and southern ends with peaks of 210 and 156 ppb Au and 104 ppb Au respectively. There is also some support from As. There are only a few pot holes within the anomalous zones.

Township/Church Hill

This zone, the best defined at Mathinna, extends north-south for 1.1 km and is bounded to the north, west and to a large degree the east by alluvial cover. Apart from spot highs of 5.17, 2.33 and 1.02 g/t Au the zone contains broad zones contourable at the 50 ppb Au contour. The area is reported to have been extensively 'loamed' in the early part of this century (L Lee pers comm.). The area contains the old Golden Stairs, Enterprise, Section 10998 and Moores workings though none of these were of any real significance.

Horseshoe

The real significance of this anomaly is its position both on a major north-north-west zone extending well into EL 22/92 and apparently coinciding with a favourable faulted (?) anticlinal structure.

At the time it was considered that the Township/Church Hill anomaly was particularly encouraging given its position over a similar structural position to the New Golden Gate reefs.

7.3 Geological Mapping/Rock Sampling

The results of the geological mapping have been discussed in section 3.3.

Initial rock sampling was undertaken in order to differentiate gold bearing styles of quartz veining from barren veining. Most of these samples were taken from mullock heaps around old workings.

The most intructive samples were taken from the Volunteer Consolidated, Old Boys and Golden Stairs (now strewn across the paddock) mullock heaps.

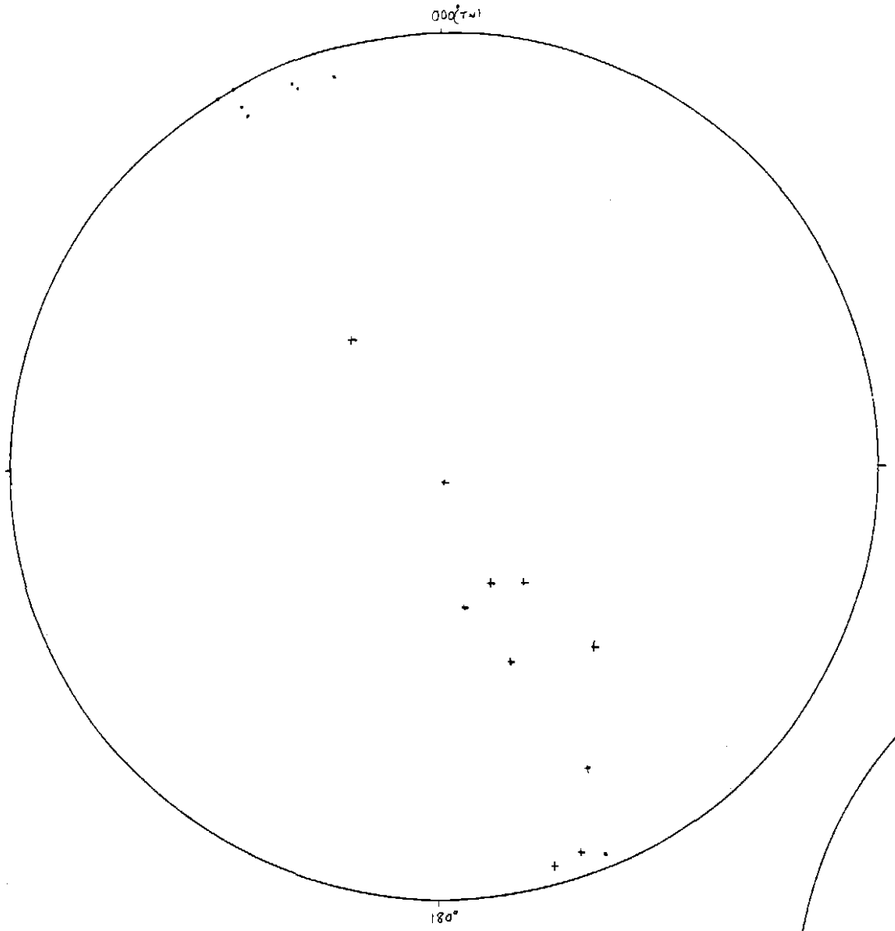
Two blue grey arsenopyritic samples from the Volunteer Consolidated dump assayed 478.0 g/t Au, 3.8% As and 211.1 g/t Au, 1.6 % As whilst a laminated arsenopyritic sample (in Plate 5) assayed 64.3 g/t Au, 1.2% As. Stockworked and/or silicified samples assayed up to 7.19 and 1.24 g/t Au. A total of 13 samples were taken from the Volunteer Consolidated dump.

Ferruginous 'lode cap' samples from the Old Boys dump and from heaps adjacent to open stopes assayed up to 2.28, 1.11 and 0.12 g/t Au. Fifteen samples were taken at the Old Boys workings.

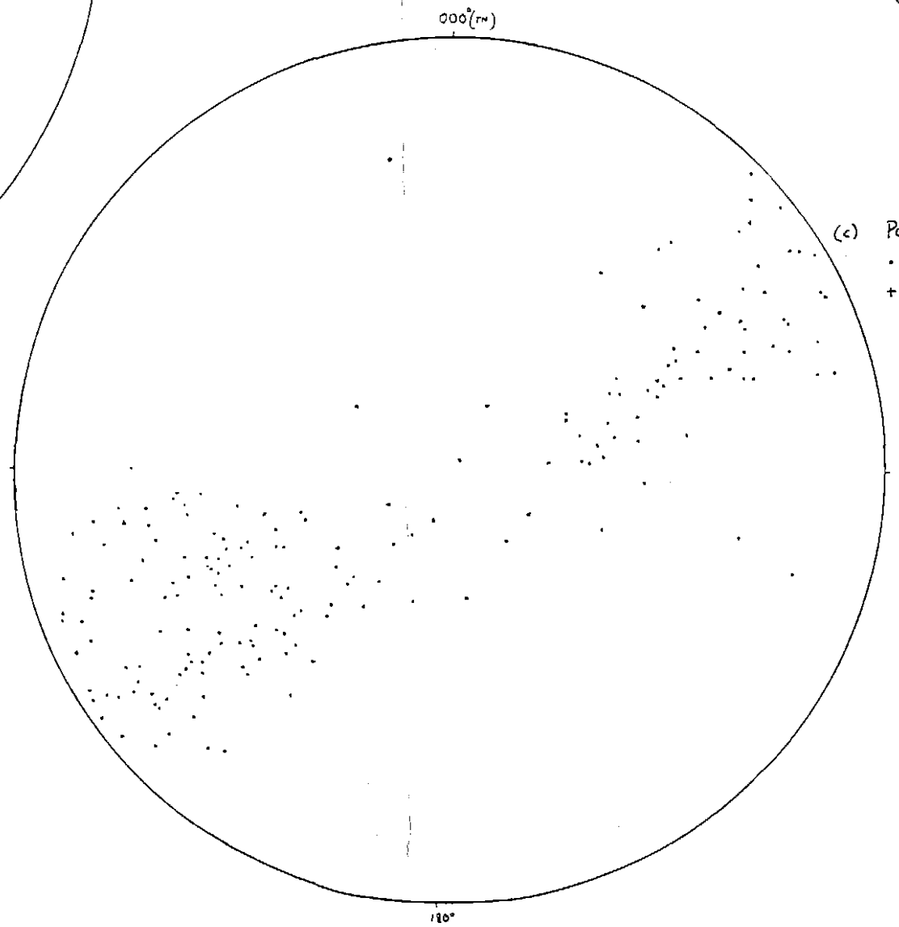
Blue grey arsenopyritic quartz samples of Golden Stairs mullock assayed up to 28.3 and 11.4 g/t Au whilst stockworked and/or silicified siltstone assayed up to 0.96, 0.59 and 0.57 g/t Au. Nine samples in total were collected.

A single laminated arsenopyritic sample from the City of Hobart dump (EL 44/94) assayed 49.0 g/t Au.

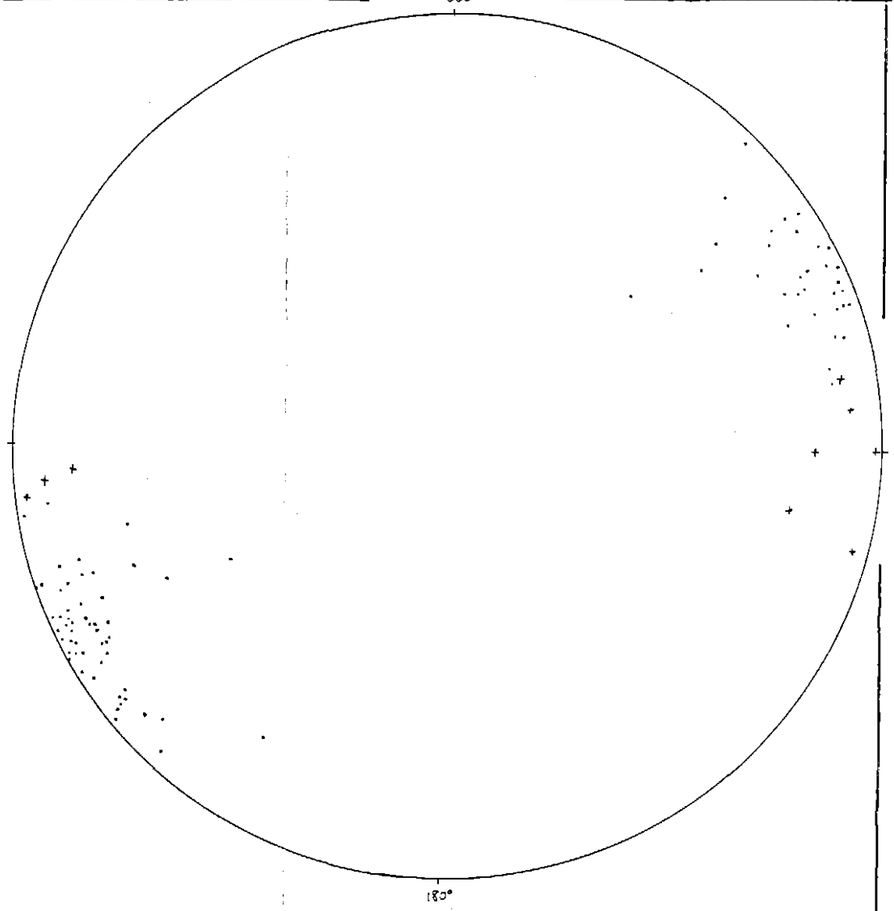
Silicified or stockworked siltstone from the Golden Gate Extended assayed up to 0.03 g/t Au. Three samples were taken.



(a) FOLD HINGE LINES
- F_1
+ F_2



(b) POLES TO BEDDING



(c) POLES TO CLEAVAGE
- S_1
+ S_2

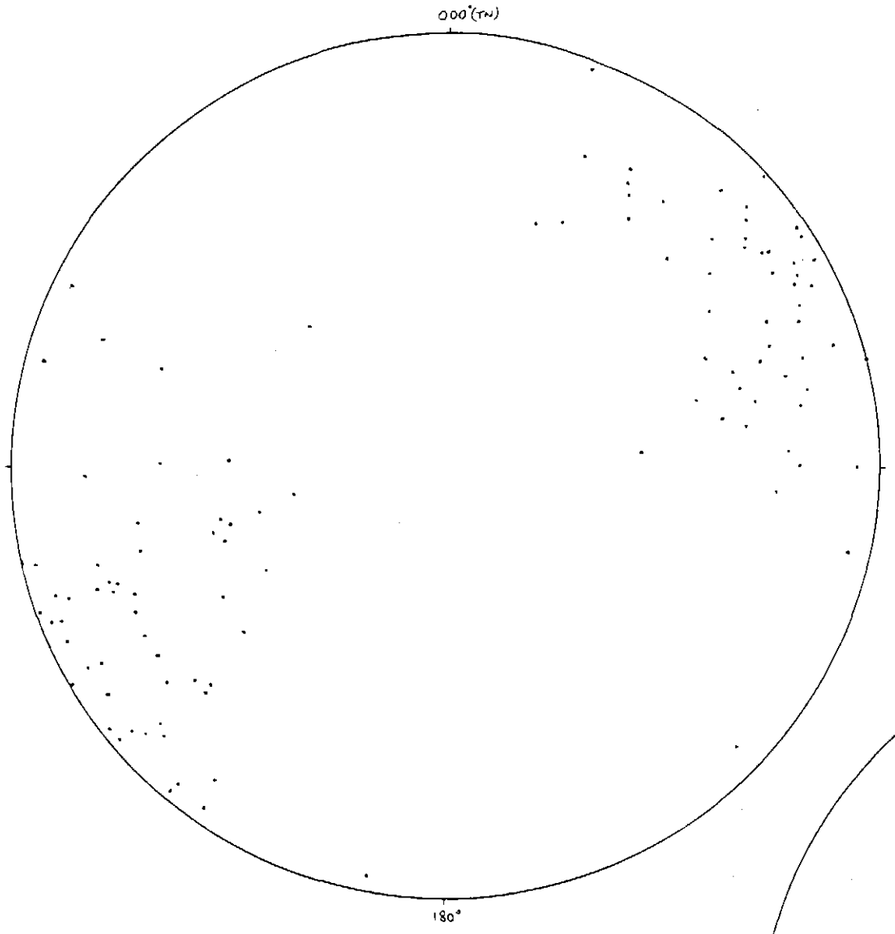
329049

RESOLUTE SAMANTHA LIMITED

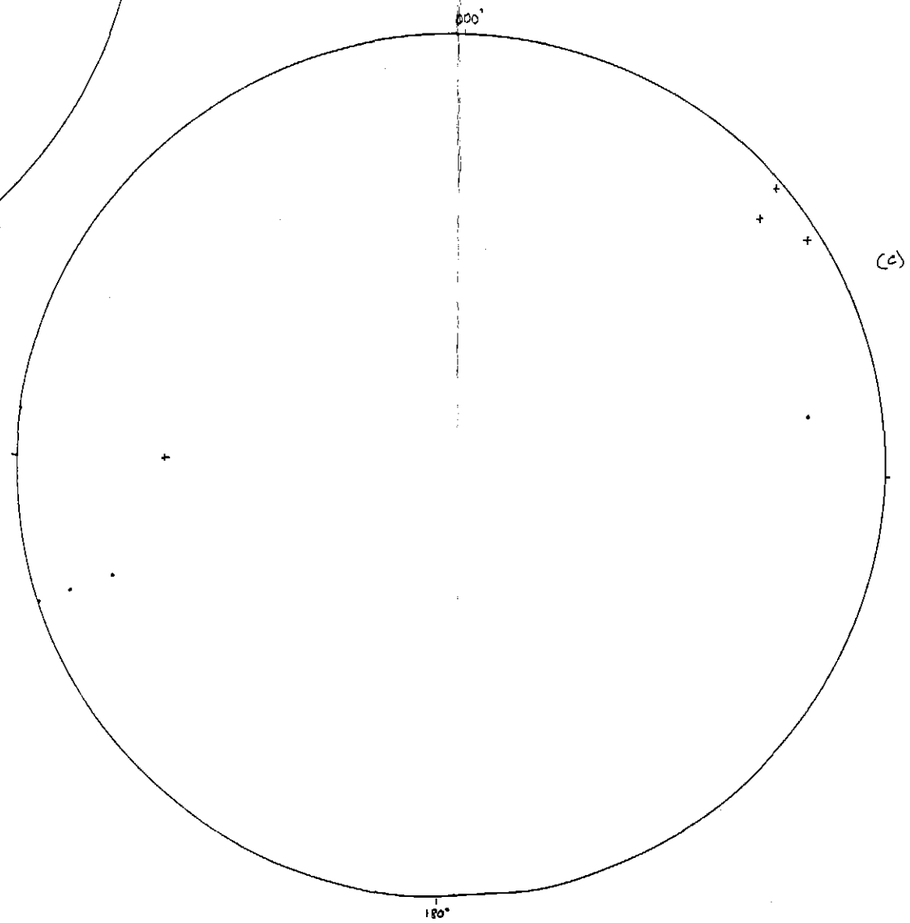
EL 17/91 "MATHINNA"
FOLD AXES AND POLES
TO BEDDING AND CLEAVAGE

Scale :

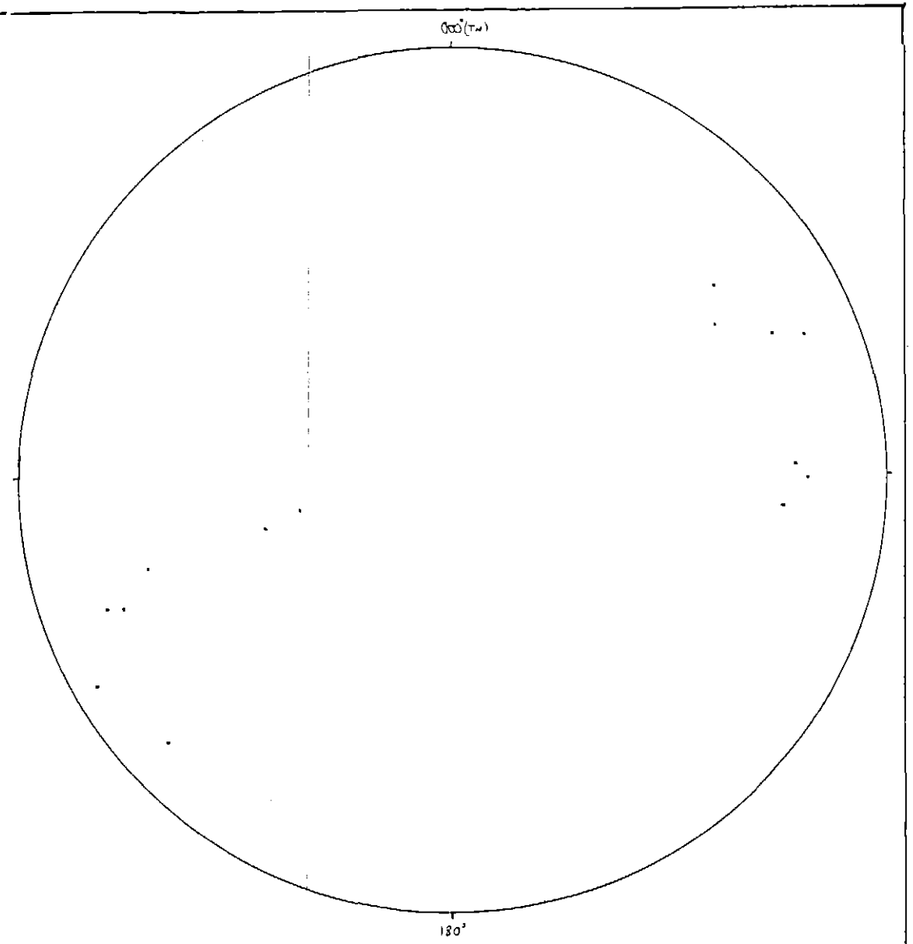
Date :



(a) POLES TO ALL FAULTS_



(b) POLES TO FAULTS WITH HORIZONTAL SLICKENSIDES
- DEXTRAL
+ UNKNOWN



(c) POLES TO FAULTS WITH VERTICAL SLICKENSIDES

329050

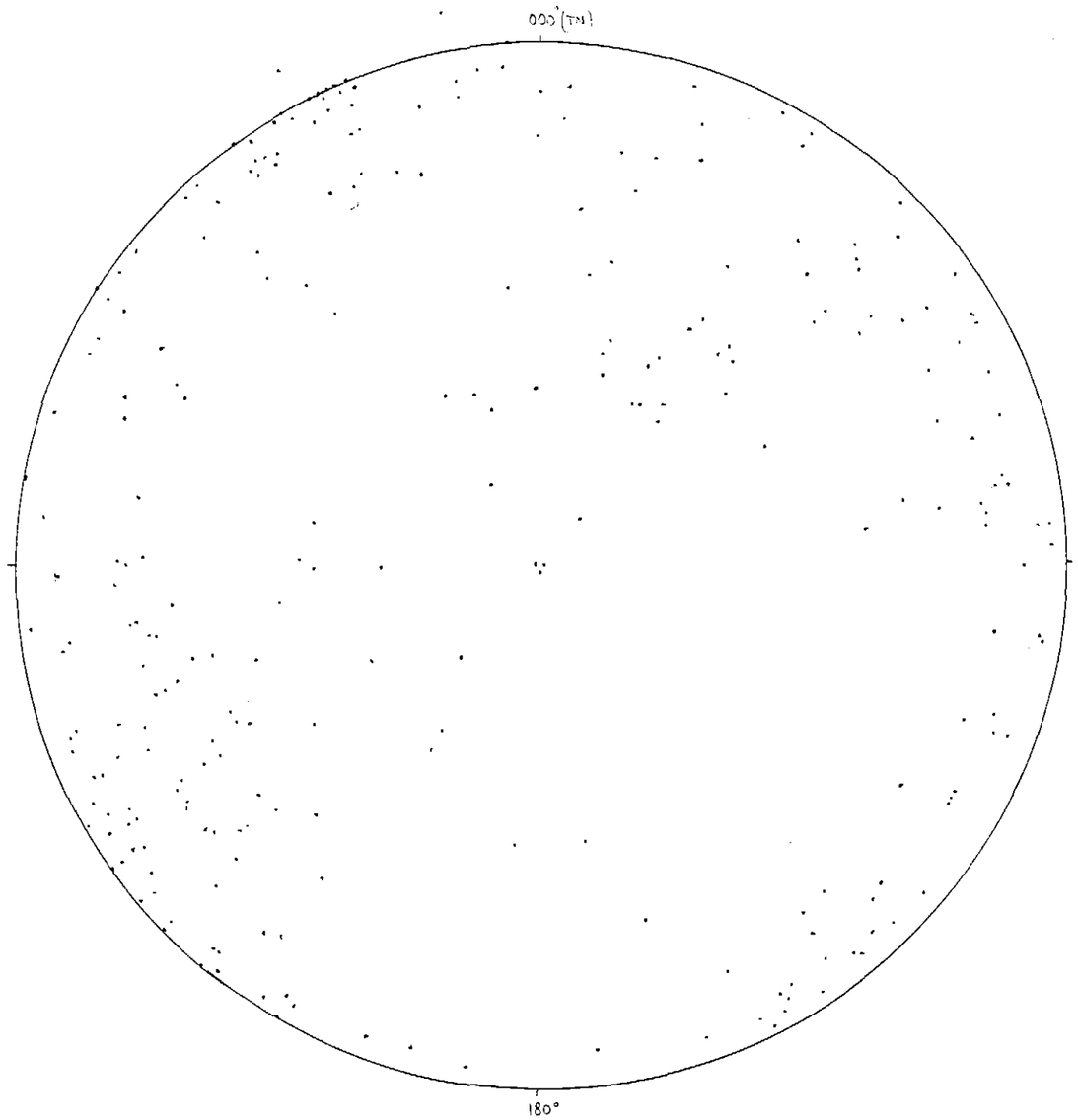
RESOLUTE SAMANTHA LIMITED

EL 17/91 "MATHINNA"

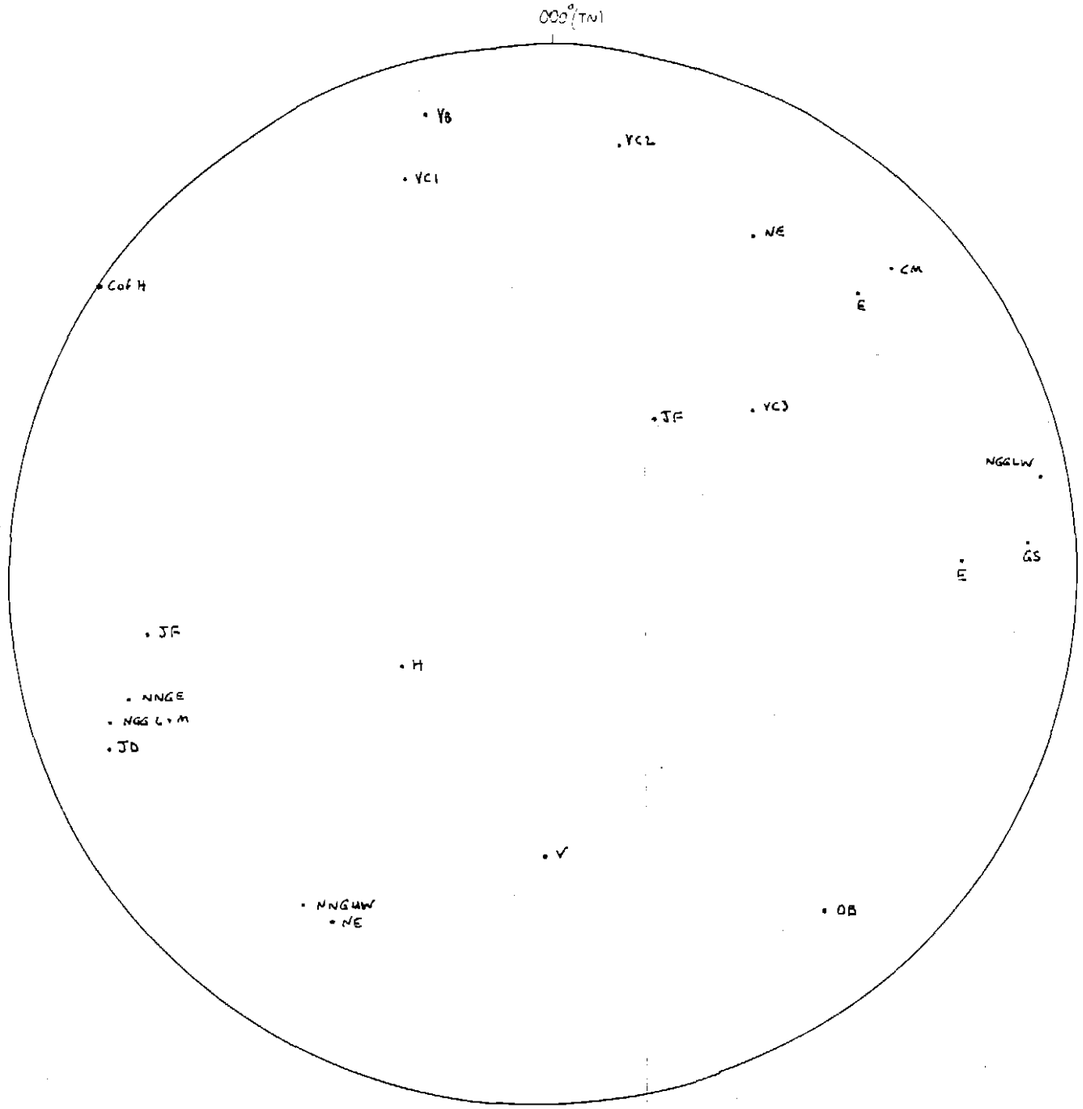
POLES TO FAULTS

Scale :

Date :



(a) POLES TO ALL VEINS



(b) POLES TO MAJOR REEFS

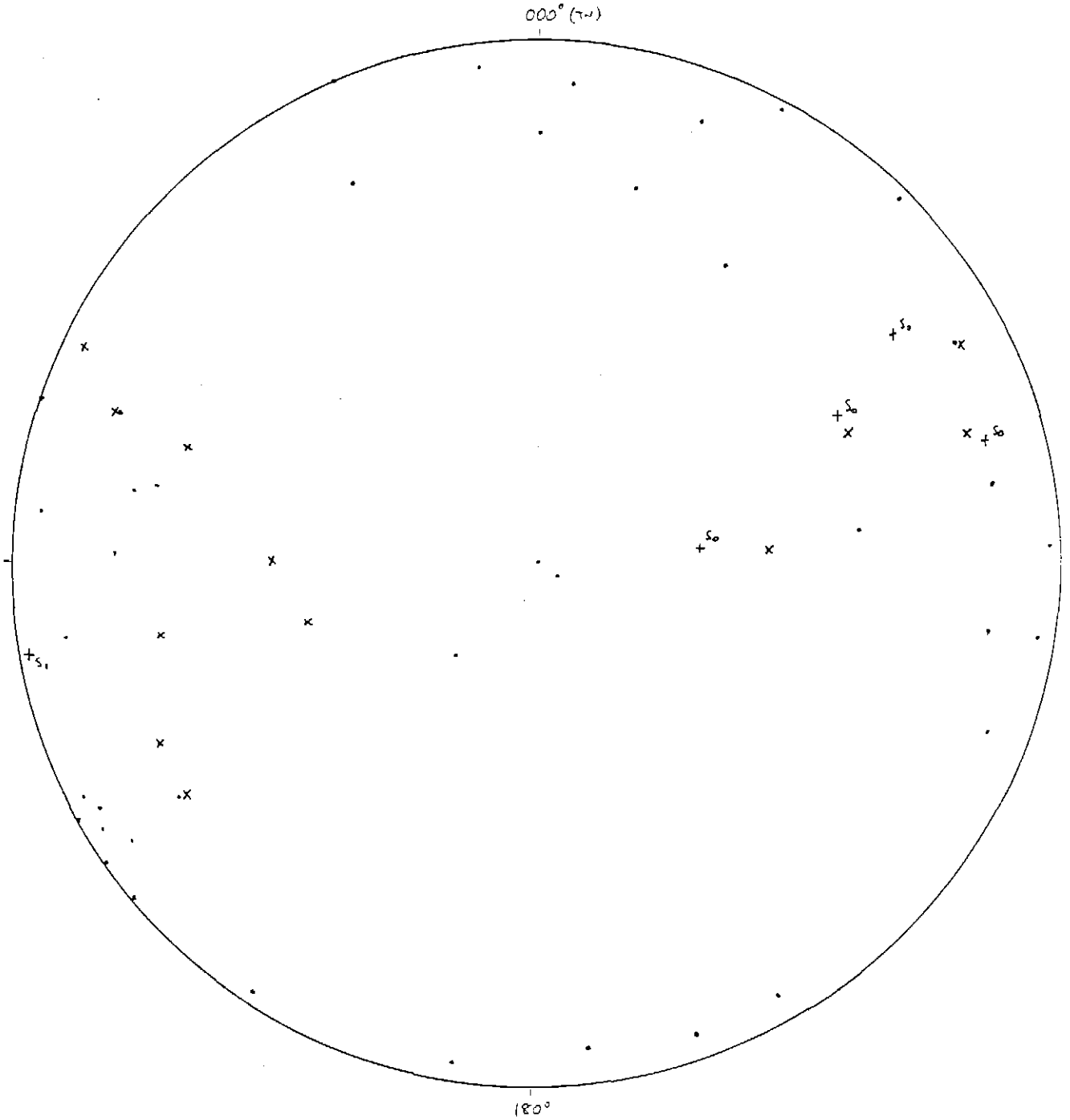
NGGE, uw, LW, L, M - New Golden Gate East, Upper West, Lower West, Loanes, Main; CM - Chester and Murray; E - Enterprise, V - Volunteer, OB - Old Boys, GS - Golden Stairs; CofH - City of Hobart; JD, F - Jubilee Derby, Flat; YB - Yellow Boys; YC1, 2, 3 - Volunteer Consolidated 1, 2, 3; NE - New Eldorado; H - Horseshoe

329051

RESOLUTE SAMANTHA LIMITED

EL 17/91 "MATHINNA" POLES TO VEINS AND MAJOR REEFS

Scale :	
Date :	



- • POLES TO VEINS
- x POLES TO FAULTS
- +So POLES TO BEDDING
- +Si POLES TO CLEAVAGE

329052

RESOLUTE SAMANTHA LIMITED

EL 17/91 "MATHINNA"
POLES TO STRUCTURES
IN THE NEW GOLDEN GATE
ADIT AND SURFACE MAPPING

Scale :	
Date :	

Most other samples were taken from areas of geochemical anomalism in an attempt to locate the source of this anomalism.

Six samples of bucky quartz, lode cap and stockworked siltstone were collected from between the Catholic Church and the old sawmill. Best results were 0.15, 0.14 and 0.02 g/t Au.

Seventeen samples from the vicinity of the Horseshoe anomaly were mostly of bucky quartz float. Best results of 1.63 and 0.52 were of mullock from the Telegraph shaft with float samples invariably low.

Fourteen float samples of bucky and stockworked quartz from Caledonian Hill were also invariably low (best 0.19, 0.08 g/t Au).

A single sample of stockworked siltstone from south-west of the Old Boys mine assayed 1.24 g/t Au.

Perhaps the most encouraging rock sampling came from Chinamen's Hill. Eighteen samples of stockworked siltstone returned generally anomalous results with best 1.26, 1.21 and 0.95 g/t Au. A single rock sample from the Chinamen's Hill No. 1 costean assayed 20.8 g/t Au whilst three samples of quartz veining from the No 2 costean assayed 7.35, 4.92 and 4.06 g/t Au.

7.4 Aeromagnetics/Enhancement/Interpretation

John Ashley's interpretation of the Aeromagnetics is shown as an overlay to Figure 3.

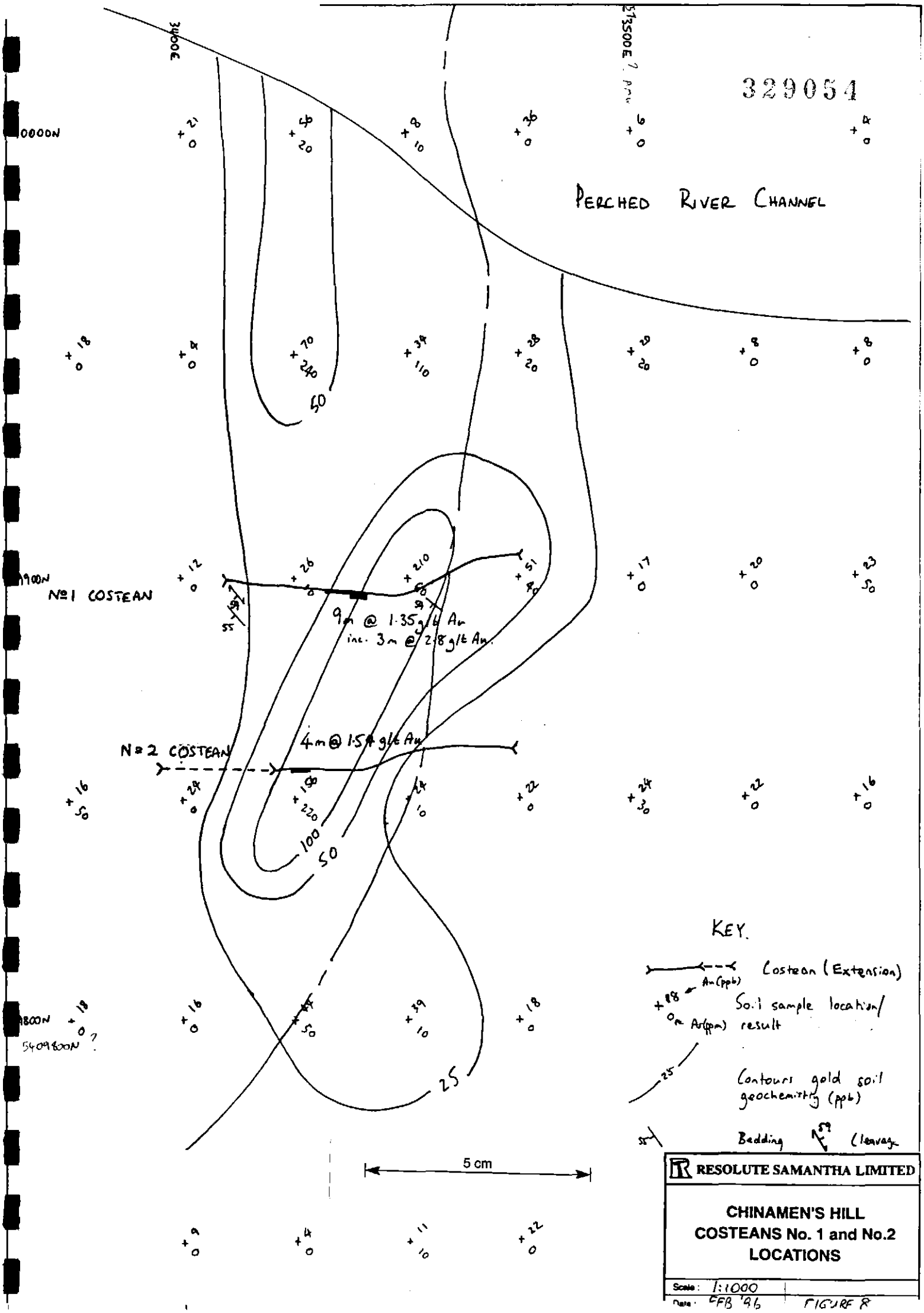
Significant structures are:-

- The east-south-east Z2 vague fault, apparently an early structure
- The dextral north-north-east striking faulting passing just to the south of the City of Hobart, towards the T4 target area
- The F13 'vague fault' trending north-north-westwards through the Chinamen's Hill soil/costean geochemical anomaly
- The north-north-west striking dextral fault corresponding to the 'Main Slide' shear zone, apparently truncating an earlier dextral fault striking just east of north
- The L1 lineament striking north-north-west along Caledonian Ridge corresponding to a mapped anticline

7.5 Channel Samples

The results of the channel samples taken in the Horseshoe adit/open stope are shown in Appendix H. The channels indicate that the $\approx 060^{\circ}$ striking tension veins in the wall to the (now stoped out) Horseshoe Reef are auriferous but sub economic. Overall channel result is 7.5 m @ 0.25 g/t Au including 1.5 m @ 0.95 g/t Au.

The Horseshoe outcrop samples returned a channel of 2.8 m @ 0.05 g/t Au.


329054
PERCHED RIVER CHANNEL
No 1 COSTEAN
9m @ 1.35g/t Au
inc. 3m @ 2.8g/t Au
No 2 COSTEAN
4m @ 1.5g/t Au
KEY.
Costean (Extension)
Au(ppb)
Soil sample location/ result
Contours gold soil geochemistry (ppb)
Bedding
Cleavage
5 cm
RESOLUTE SAMANTHA LIMITED
CHINAMEN'S HILL
COSTEANS No. 1 and No.2
LOCATIONS
Scale: 1:1000
Date: FEB '96
FIGURE 8

7.6 Costeans

The No 1 costean intersected a zone of narrow sheeted veins in siltstones on the west side of Kitto's Creek. Channel sampling coincident with this zone returned a broad zone of Au/As anomalism with 17 m @ 0.97 g/t Au including 3 m @ 2.8 g/t Au (see Figure 8). A single rock sample from within this central high assayed 20.8 g/t Au (see Plate 6). Sample locations and assay results are shown in Appendix I.

As noted, the No 2 costean was inadvertently dug 25 m east of where it was planned. Best results from this costean were 12 m @ 0.87 g/t Au including 4 m @ 1.55 g/t Au towards the western end of the costean. This zone may be extended by the samples collected but not assayed from the subsequent 25 m westward extension of the No 2 costean.

Three samples of the quartz veining taken from towards the western end of the costean assayed 7.35, 4.92 and 4.06 g/t Au.

The No 3 costean intersected essentially only weathered siltstone with negligible veining. The three samples of quartz veins dollied gave discouraging results and it was decided that further sampling was not warranted until the results of drilling the No 1 costean were known.

7.7 Drilling

The drilling results were essentially disappointing with all results sub economic. However, it is reasonable to state that the programme was largely successful in that most soil anomalies were adequately explained.

A summary of best results from the drilling are listed in Table 2. All results are from 1 m riffle split samples.

Table 2 - Best Results from RC Drilling, Mathinna

Hole No	From	To	Metres @ g/t Au
MT 1	21 m	24 m	3 m @ 1.06
	inc 21 m	22 m	1 m @ 2.46
MT 2	0 m	7 m	7 m @ 2.36
	inc 4 m	5 m	1 m @ 13.6
	29 m	30 m	1 m @ 0.55
	42 m	46 m	4 m @ 0.39
MT 5	59 m	60 m	1 m @ 1.01
MT 6	17 m	19 m	2 m @ 0.67
MT 7	41 m	42 m	1 m @ 1.35
MT 15	75 m	78 m	3 m @ 0.55
MT 19	47 m	48 m	1 m @ 0.91
MT 26	46 m	47 m	1 m @ 0.71

Other than these higher results most other holes intersected broader zones of lower tenor but nevertheless anomalous gold mineralisation. These zones are of a similar order to the soil anomalies targeted by these holes. Drill hole locations are shown with geology on Figures 10, 11 and 13. A drill hole location plan at 1:5000 is also presented as Figure 24 with drill sections from Figures 25 to 35.

Regarding the other targets tested by a number of holes:-

MT 5 and MT 6 appear to have intersected the northern strike extension of the Golden Stairs reef with MT 6 intersecting 85% quartz over 2 m assaying 0.67 g/t Au and 3320 ppm As from 17 m to 19 m whilst MT 5 intersected 70% quartz over 1 m assaying 1.01 g/t Au and 2940 ppm As. There is no mineralisation in the selvedges to this reef.

Similarly M T 7 may also have intersected the southern strike extension of the Golden Stairs reef from 40 m to 43 m. Although the quartz content was low (≈ 15% overall) the interval assayed 3 m @ 0.56 g/t Au and 1880 ppm As including 1 m @ 1.35 g/t Au and 2400 ppm As.

The intersection in MT 2 appears to coincide well with the projected intersection of the two Enterprise reefs (see Figure 10). From 4 m to 5 m, MT 2 intersected 75% quartz and assayed 13.60 g/t Au and 490 ppm As. It is not clear if or where this reef was intersected in MT 1. A second reef was probably intersected in MT 2 from 42 m to 46 m with ≈ 40% quartz and elevated Au and As.

MT 24 did not intersect an auriferous quartz reef up dip from the GG 3 intersection though it may have intersected the structure as there is slightly elevated arsenic around the target depth (88 m to 96 m, 8 m @ 90 ppm As).

MT 26 was the most surprisingly disappointing though the mineralised zone has clearly been intersected.

8.0 CONCLUSIONS

The initial work conducted by Resolute Samantha Limited ie gridded soil sampling, historical research and geological mapping defined a number of anomalous areas. These were as follows:

Township/Church Hill	- soil geochemical anomalies - limited but encouraging old working - favourable structural setting
Chinamen's Hill	- soil geochemical anomalies - anomalous channel samples/rocks in costeans - no old workings
DDH GG 3 intersection	- anomalous previous drill intersection
Horseshoe	- soil geochemical anomalies which extend well into EL 22/92 - limited old workings - very favourable structural setting
New Golden Gate/ North Gate	- limited underground exploration of strike continuation of East Reef - further potential for reefs occupying similar structural sites
Volunteer Consolidated	- ambiguous soil results - encouraging rock sample results - depth/strike potential suggested by historical research

In addition a number of other old workings were considered to have potential ie Caledonian, Volunteer, New Eldorado.

Of the 22 holes drilled, 20 were targeted on the Township/Church Hill soil anomalies with one targeted on the DDH GG 3 intersection and the final hole drilled under the Chinamen's Hill No 1 costean.

It was hoped that this drilling would increase the potential for a shallow, large tonnage, low grade deposit amenable to open cut mining. Holes were planned on the other targets should the initial drilling programme provide such encouragement.

Unfortunately the drilling programme, although technically successful, was ultimately disappointing. Hence Resolute Samantha's decision to pull out of the Joint Venture.

There is still considerable potential for the existence of high grade reefs, though the discovery of such reefs is problematic due to the limited strike extent of the sub-vertical ore shoots containing most mineralisation.

Future exploration, whilst not discounting the high quality soil geochemical coverage, should focus on both the structural mapping of the area as well as using the known old workings/reefs as a starting point.

The following areas/targets should be considered in planning future work:-

- The northern strike extension of the East Reef in the New Golden Gate mine has been shown to contain economic mineralisation in one of two intersections.
- There is still further potential for en-echelon repetitions of New Golden Gate - North Gate styles of reefs to the north-north-west of the North Gate (eg Moores?, section 10998?).
- The Horseshoe soil geochemical anomaly lies along a major (faulted?) anticlinal position which extends through to the New Eldorado workings.
- The structure hosting the Volunteer Consolidated reefs has not been tested at depth or along strike adequately by the old prospectors.
- The DDH GG 3 intersection, whilst possibly overstated in width, still has depth potential.
- The Chinamen's Hill soil anomaly still has some untested potential for stockwork mineralisation.

9.0 Bibliography

Calver, C R; Everard, J L; Findlay, R H And Lennox P G (1988). *"Ben Lomond" Map Sheet Geological Atlas 1:50000.*

Cox, S F; Wall, J V; Etheridge, M A and Potter, T F (1991) *Deformational and Metamorphic Processes in the Formation of Mesothermal Vein-Hosted Gold Deposits - Examples from the Lachlan Fold Belt in central Victoria, Australia.* In: F M Vokes (ED), Ores and Metamorphism. Ore Geol Rev, 6:391-423.

Finucane, K J (1935). *Mathinna And Tower Hill Goldfields.* Bull. Geological Survey, Tasmania. 43.

Gascombe, B D And Findlay R H (1989). *Mega-Kinking In The Mathinna Beds, North-East Tasmania.* Report - Department Of Mines, Tasmania. 1989/42.

Keele, R A (1994). *Structure And Veining In The Devonian-Aged Mathinna-Alberton Gold Lineament, North-East Tasmania.* Report - Mineral Resources, Tasmania. 1994/06.

Klominsky, J And Grove D I (1970). *The Contrast In Granitic Rock Types Associated With Tin And Gold Mineralisation In Tasmania.* Proc. Aus. I M M. 234:71-77.

Leaman, D (1990). *Aeromagnetic Survey EL 55/83 Mangana.* Acquisition Report (Including Preliminary Interpretation) For Pegasus Gold Australia (TCR 90-3197A).

McClenaghan, M P; Everard, J L; Goscombe, B D; Findlay, R H And Calver, C R (1993). *Alberton Map Sheet Geological Atlas 1:5000.*

McClenaghan (1994). *A Summary Of The Beaconsfield, Lebroy, Back Creek And Gladstone Goldfields.* Report - Mineral Resources, Tasmania. 1994/03.

McOnie (1983). *A Review Of The Gold Potential Of North Eastern Tasmania.* Goldfields Exploration Ltd (TCR 90-3140).

Montgomery, A (1892). *Report On The Mathinna Goldfield.* Report - Secr. Mines, Tasmania. 1891-92.

Newnham L A (1992). *ELs 22/92 And 23/92, North-East Tasmania - Review Of Previous Exploration Information.* Unpublished Report, Newcrest Mining Limited.

Richardson, R And Roach (1994). *An Interpretation Of Recent Geophysical Surveys, North-Eastern Tasmania.* Report - Mineral Resources, Tasmania. 1994/08.

Taheri And Bottrill (1994). *A Study Of The Nature And Origin Of Gold Mineralisation, Mangana-Forester Area,* North-East Tasmania. Report - Mineral Resources, Tasmania. 1994/05.

Threader, V M (1967) *Geology of the Mangana Waterhouse Goldfields with Particular Reference to Structure and Mineralisation.* MSc Thesis, University of Tasmania; Hobart.

Turner, W S (1972). *Progress Report On Mineral Exploration In The Mathinna - Tower Hill Goldfield NE Tasmania EL 6/68 to 30th September 1972.* Geophoto Resources (TCR 92-923).

Turner, W S (1974). *Final Report On Mineral Exploration In Lode And Alluvial Gold Prospects At Mathinna NE Tasmania EL 6/68.* Geophoto Resources (TCR 74- 994).

Twelvetrees, W H (1906a). *Report On The Mathinna Goldfield; Part 1.* Report - Secr. Mines, Tasmania.

Twelvetrees, W H (1906b). *Report On The Mathinna Goldfield; Part 2.* Report - Secr. Mines, Tasmania.

Twelvetrees, W H (1907). *The Mathinna Goldfield, Part 3.* Bull. Geological Survey, Tasmania. 2.

Twelvetrees, W H (1914). *On Some Gold Mining Properties At Mathinna.* Report - Geological Survey, Tasmania. 5.

Williams and McClenaghan (1989) In Burrett, C F And Martin, E L (Eds). *Geology and Mineral Resources Of Tasmania.* Geol. Soc. Australia. Spec. Publication 15.

APPENDIX A

Review of Previous Work. Alberton - Mangana Zone - L A Newnham (1992)

5 REVIEW OF PREVIOUS WORK: ALBERTON-MANGANA ZONE

5.1 Historical Exploration and Development:

Gold was discovered at Mangana in 1852, and as exploration logically extended to the North, further discoveries were made, eventuating in the definition of four significant and distinct zones of mineralisation:

- Lyndhurst to Mangana
- Lisle
- Lefroy
- Beaconsfield

By the 1880's, significant gold mines were operating on all four fields. In the Lyndhurst-Mangana zone, activity was concentrated on the southern section between Mangana and Alberton within a 70 x 5 km belt of deformed turbiditic sediments.

Exploration was intense in this corridor. The classical target was narrow, high grade sulfidic quartz veins. It was recognised at an early stage that these veins were structurally controlled and occurred in a range of orientations and forms within zones of shearing and tectonic deformation.

In these early days, economic grades were 20-30 g/t gold, and cut-off grades 15 g/t.

Recorded production in the Alberton-Mangana area was dominated by the New Golden Gate Mine. The top 10 producers were:

New Golden Gate	254,000 oz	Mathinna
City of Hobart	22,000	
Tasmania Consolidated	11,000	
Volunteer	3,000	
Volunteer Consolidated	2,000	
Ringarooma Gold Mining	9,000	Alberton
Mt. Victoria	5,000	
New River	5,000	
Mercury	2,000	
Golden Entrance	3,000	Mangana

Several of these individual operations were probably working the same orebody, or extensions of nearby deposits, for example, the Tasmania Consolidated reefs were the northern extensions of the New Golden Gate reefs, and the Argyle Mine the southern extension of the Golden Entrance Mine.

A full listing of mine production and mine dimensions appears as Appendix 4. Principal mines are clustered into four districts or "goldfields":

- Alberton
- Dans Rivulet
- Mathinna
- Mangana

Dans Rivulet may simply be a southern extension of the Alberton field, with a belt of younger (post mineralisation) rocks on Mount Victoria artificially dividing the field.

The division of the belt into three or four sub-goldfields, combined with the apparent westerly offset of the Mangana field may be due to important regional structural factors which will be discussed further below.

Significant mine production continued till about 1920. The generally rugged nature of the country allowed easy mine access by either shafts or adits. Typical vein features throughout the belt were:

width	0.1-1.0	up to 5 m
length	10-100m	up to 350m
depth	<100m	up to 580m
grade	15-30g/t	cut off 15g/t
strike variable,	NW to NE dominant	
dip typically steep	70 to 80^0	
mineralisation	quartz, pyrite, arsenopyrite, minor galena, chalcopyrite, sphalerite.	

Individual veins often existed in "lode formations", which tended to be wider structural features carrying several narrower but parallel quartz veins. The fragmented sediments and clays in these formations typically carried low gold grades and the quartz veins were selectively mined.

Outside these formations the host shales and sandstones carry virtually no gold (<0.01g/t)

Several early mills were constructed, principally at Mathinna, Mangana and Alberton. Generally these were simple stamp and gravity mills which recovered most of the coarse free gold, but gold closely associated with sulfides was lost. The New Golden Gate mill experimented with cyanide extraction treatment of their sulfides with limited success.

Initial early exploration was by stream sediment panning, closely followed by widespread pitting, trenching, shallow shaft sinking and adit development. Grades and prospectivity of quartz veins was determined with the dolly pot and test crushings of small parcels of quartz vein material in the numerous small stamp batteries in the district.

Interestingly some prospecting is still undertaken on the field today using these traditional methods.

An important but not unexpected feature of this area is that many of the quartz veins never outcropped, and were only discovered during underground development aimed at other veins. This was conspicuously the case at the New Golden Gate Mine.

By 1920, all significant production and exploration had ceased. Apart from small scale prospecting, the field essentially lay dormant until about 1960.

During this 40 year interval, the Department of Mines attempted to

stimulate activity by completing drilling programs at the Long Struggle, Krushka, Prendergast, O'Briens and New Golden Gate Mines. Drilling results at the Long Struggle (Alberton) and O'Briens (Dans Rivulet) mines were encouraging by contemporary standards, but were not sufficiently so at the time of drilling.

5.2 Contemporary Exploration and Mine Development:

Commencing in the late 1950s the field has been subjected to a mosaic of exploration and mine development programs which have generated much knowledge and information, but little gold. This work is reviewed chronologically below and on a district basis in the succeeding section 6.

5.2.1 E.Z. Company - 1959:

(Ref. Appendix 1/4,5)

In 1959, E.Z. completed an aeromagnetic - EM survey over a large section of North East Tasmania.

Instrumentation and altitude control problems were experienced during the survey, which was undertaken with a fluxgate magnetometer and dual frequency EM equipment. Magnetic results were generally flat, and EM responses were attributed to water filled shear zones.

A number of anomalies were defined in the Fingal-Alberton area and several were ground checked. No detailed follow-up work eventuated.

5.2.2 Geophoto Resource Consultants - 1969-74:

(Ref. Appendix 1/6-13 and 15-22)

Geophoto held EL 6/68 for six years to facilitate major exploration programs for a range of commodities and targets in North East Tasmania.

The south west corner of the 1050 sq. kilometre licence covered the Mathinna-Mangana area.

Regional Studies

Initial work was of a regional nature over the whole licence area and included airborne scintillometer surveys, stream sediment sampling programs and broad geological reviews (1/6,7,8).

They concluded that folding and deformation was more intense in the major mineralised areas and decided to continue exploration for gold in the Mathinna-Mangana area, initially using a regional fracture analysis to highlight areas and to follow these up with gold-arsenic geochemical surveys and geophysical programs in major shear zones.

They also decided to test for alluvial gold in the Mathinna area.

For various reasons, Geophoto had technical difficulties with their fracture analysis study, but eventually produced some useful data (1/8,11). In addition to quantifying major structural features they also attempted to define placer channels beneath Cainozoic cover.

They concluded (on the basis of fracture analysis) that the gold zone was dominated by a primary NW trend overprinted by a later NE trending direction, and proposed that mineralisation was located where NE tension zones cross the NW trend (Fig. 3)

This general structural concept has received independent support from later workers studying local and regional structure in NE Tasmania.

Outside the main Mangana-Mathinna area, Geophoto also highlighted the potential of the Golden Ridge area NNE of Mathinna, which currently lies just outside the Newcrest tenements within E.L. 58/88 (1/10,21). They mapped the area and took 57 soil samples which were assayed for Cu, Pb, Zn, Ag. No further work was undertaken. This area was again highlighted by Billiton in 1991 (see below)

In 1972, Geophoto reduced their Licence to 56 sq. kilometres around Mathinna and directed further work at both detailed ground surveys over several former mines and an evaluation of alluvials in the region.

Detailed Primary Gold Programs (Mathinna Area)

Ground surveys were concentrated on grids established over the Jubilee-Mountaineer area and the City of Hobart- Chester and Murray-Old Boys-Volunteer area to the South and West of the New Golden Gate Mine respectively (see Figure 11 for general location).

These two areas were selected because of their structural setting. The Jubilee-Mountaineer area lay within the "zone of close folding" which ran immediately west of the New Golden Gate and was regarded as an important genetic factor in the development of that deposit(s).

The City of Hobart-Volunteer area lay immediately west of this zone, arguably in a deformed region associated with the "zone of close folding" which would correspond to the New Golden Gate position on the east side of the zone.

The Jubilee Mine also attracted attention because it is one of the few mines in the district interpreted as having been developed on saddle reef stratabound type veins.

Geophoto mapped their whole E.L. at 1:6,300 scale and the specific grid areas at 1:750.

On the **Jubilee Grid**, they experimented with various geophysical techniques including I.P. (dipole-dipole) and VLF. Whilst these methods defined fault zones, Geophoto doubted (quite correctly) their ability to locate concealed mineralised veins.

The grid was soil sampled and assayed for Cu, Ni, Co, Pb, Zn, Ag, As, Mn, Sb, Hg. The As:Cu ratio was considered a useful pathfinder for Au. The logic of this was not explained and must be questioned.

Two trenches dug over the strongest geophysical anomalies were mapped and sampled in detail. Few quartz veins were exposed and assays were disappointing.

Apart from mapping, the City of Hobart-Volunteer Grid was soil sampled, with discouraging results.

Following this grid work, Geophoto concluded:

- structure is important in the genesis and formation of the lodes.
- geophysical methods were of limited value.
- geochemical soil sampling was useful but limited.
- drilling was the best exploration method.

However, they undertook no drilling in their exploration for primary gold deposits.

Alluvial Exploration: (Ref. 1/15, 17, 19-22)

Geophoto had an alluvial search objective of a minimum $0.8Mm^3$ of 3g/t Au (seems high?)

They tested alluvial deposits in Black Horse Gully and Long Gully Creek which drain north from Mathinna into the South Esk River, and in the Dans Rivulet north of Mathinna.

They also undertook limited auger sampling of the New Golden Gate tailings.

In **Black Horse Gully**, west of Mathinna, sampling in 1906 by Twelvetrees had indicated $600,000m^3$ of 750 mg/m^3.

Geophoto initially took 104 samples from five lines of backhoe pits. Two of these lines indicated a possible $100,000m^3$ of $500mg/m^3$.

Following a further 94 holes on five lines, they concluded the results were highly erratic with most gold in the bottom 0.5m.

In **Long Gully Creek**, two lines of pits were completed but results were poor.

Following several lines of seismic profiling in the lower **Dans Rivulet** valley, seven backhoe pits and 18 cable drill holes on three lines

were completed along Claytons and Mathinna Falls Road and north of Mathinna Falls road. Difficulty was experienced with water inflows. The alluvium was up to five metres thick and the best grade was 500mg/m^3.

Because their minimum target resource was not apparent in any of the above three areas, no further alluvial exploration was conducted.

5.2.3 **Una-Hinemoa Syndicate 1973-75**: (Alberton and Dans Rivulet)

References 1/14, 23

Special Prospecting Licence 107 was held by a local syndicate over the Strickland, Una, Hinemoa Mines in the North end of the Dans Rivulet goldfield from 1973-75. (These mines straddle the boundary of E.L. 23/92).

They were inspected by representatives of Geopeko (1973) and Mt. Lyell (1975) as potential joint venture partners.

On both occasions, narrow cleavage parallel quartz veins exposed in shallow adits and pits were sampled. Values range from 2-45g/t Au but no further work was undertaken and the tenement was relinquished.

This style of cursory examination and sampling generally adds little to the understanding of geology or potential of these vein systems.

5.2.4 **Stannon Engineering Co. Pty. Limited 1975-76 (Alberton)**: References 1/24,25.

This Company (of which little is known) held E.L.'s 6/76, 7/76, 8/76 over the Alberton gold field from 1975-76.

Their interests centred on the main Ringarooma Mine and the adjacent Mercury Mine.

Apart from lengthy dissertations, based on historical data, on the virtues and benefits to be had from drilling, re-opening and developing these two mines, their reports contribute little to knowledge or exploration of the area.

5.2.5 **Amdex Mining Limited 1980 (Alberton)**:

Reference 1/31

Amdex Mining Limited and Kibuka Mines Pty. Limited briefly explored E.L. 7/80 of seven sq. kilometres over the main Alberton mines

under an agreement with a local syndicate.

They regarded the Alberton lodes as emplaced by selective replacement of sheared country rock in a linear shear zone of either strike slip or wrench faulting.

Some samples were taken from the Hannah Tunnel on the Ringarooma Mine and the Long Struggle adit.

Results were low grade and no further work was undertaken.

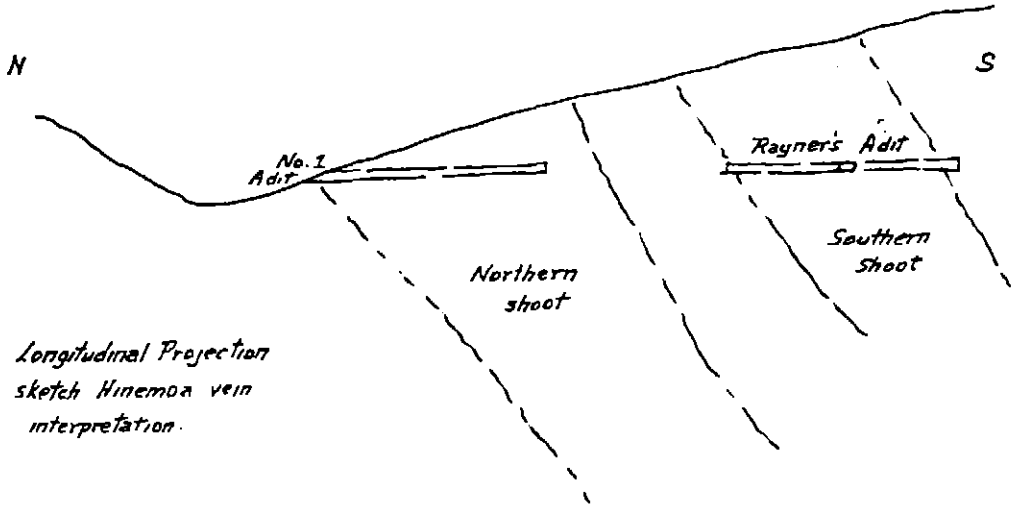
5.2.6 **Sturts Meadows Prospecting Syndicate 1980 (Dans Rivulet area):**

Reference 1/29

This syndicate held E.L. 31/76 over the whole Dans Rivulet gold field, and field work was undertaken by A.C. Howe Australia Pty. Limited.

Most of the area lies outside the Newcrest tenements with the exception of the Hinemoa and Una Mines.

Sturts Meadows thought the **Hinemoa Mine** was developed along a single vein system for 250m by way of three adits and a series of trenches. Two 'ore-shoots' were developed along this north-south vein, each shoot with a strike length of 50-60m, width 0.25m, dip 75^0N, plunge South. The northern shoot was developed in No. 1 adit and the Southern shoot in Rayner's adit.



Longitudinal Projection sketch Hinemoa vein interpretation.

At the **Una Mine**, five adits were interpreted as having been driven into a major shear zone consisting of a number of parallel (?) lodes. The syndicate considered this to be a strong structural NNW trending zone 550m long and 75m wide, which warranted further investigation.

At Una forest reserve area had may be worth a look.

In the event, no further work was undertaken in this area.

5.2.7 Mineral Holdings Australia Pty. Limited 1980-81 (Dans Rivulet):

(Reference 1/41)

E.L. 3/80 covered all the Dans Rivulet area and was taken up when Sturts Meadows relinquished E.L. 31/76 (above).

Selective samples were taken from known workings, including the Una and Hinemoa, but the results and consequences of this work are of limited value.

5.2.8 Tasminex N.L., 1978-82 (Mathinna-Mangana Area):

Reference 1/26,27,28,30,39,40,44,46.

Tasminex held E.L. 17/78 over the Mathinna-Mangana area for a four year period from 1978-82.

Their principal objectives were:

- Explore for alluvial gold deposits
- Explore for primary gold deposits
- Retreatment of tailings

Alluvial gold exploration:

Tasminex's minimum alluvial target was 0.5Mm^3 at 500mg/m^3 Au.

They concentrated sampling on Black Horse Gully, Long Gully Creek at Mathinna, Dans Rivulet north of Mathinna, and Richardsons Creek and tributaries north of Mangana.

Initially samples were taken with a backhoe and concentrated on site with a pan to give 50-300g pan concentrate samples.

The method used to reduce a backhoe sized sample to a pan concentrate is not made clear in their reports.

Pan concentrates were grain counted and assayed.

In total 1026 samples were collected from 15 lines on Black Horse Gully and Long Gully Creek, four lines at Mangana, and 16 pits in Dans Rivulet. Sample lines were generally 300m apart, with sample points every 25m.

Of the 317 samples assayed, 169 contained detectable gold. Considerable problems were encountered in reconciling assays with pan

concentrate grain counts.

At Mathinna the alluvials were generally 2-3m thick, at Mangana in excess of 6m, and at Dans Rivulet in excess of 4m.

In contrast with earlier Geophoto sampling, Tasminex found most of their gold at Black Horse Gully near the tops of holes, not the bottoms.

Because of perceived discrepancies with assays, further sampling was undertaken by passing bulk samples (10-160m^3) through a small pilot plant equipped with screens and jigs. Nine samples from Mathinna and four from Mangana were processed in this manner.

Mathinna grades were in the 20-460mg/m^3 range and Mangana (Majors Gully) 70-270mg/m^3.

Volumes were estimated as less than the minimum target and no further alluvial testing was undertaken.

Primary Gold Exploration;

Tasminex explored the Mathinna-Mangana area for primary gold deposits.

Initially they undertook both orientation stream sediment surveys to establish effective district parameters, and compiled available data on known deposits.

Minus 80 mesh active sediments were collected and assayed for Cu, Pb, Zn, As. As a result of this work, Pb and As were considered good pathfinders for mineralised quartz veins.

Forty seven mines were located within the E.L., and sampled. Of the 691 samples taken, 219 were in-situ vein samples and 472 quartz veined dump samples. Samples were crushed and only those with visible gold were assayed. (This whole exercise seems rather pointless).

They evaluated a range of geophysical methods as a way of prioritising these mine targets, but concluded that all available methods were likely to be ineffective in locating the anticipated reef targets sought.

A detailed study of the **New Golden Gate-Tasmania Consolidated Mines** was undertaken, including a thorough analysis of the structural controls on mineralisation.

They concluded:

i) reefs were developed in a folded zone east of a major shear zone, equivalent to the 'slide' or 'zone of close folding' of earlier workers.

ii) gold grades were influenced by changes in strike and dip of the reef.

iii) scope existed for the reefs to extend North at depth.

Based on these conclusions, they proposed a program of four cored holes to test the northern extension of the East Reef and the depth extension of the West Reef beneath the Caledonian Mine.

It was also proposed that the East and West Reefs could be further tested by extending the previous drilled Department of Mines No. 3 hole.

Tasminex identified several other mines within their E.L. which warranted drilling.

At the **Jubilee Mine**, the Flat, Derby and Lyons Reefs were interpreted as part of the same reef transposed by folding along a SSE plunging axis (ie) a disrupted saddle reef. Last production was from the 79m level where 18 tonnes ore averaged 45g/t Au. Tasminex proposed one hole to test the southern extension of this lode.

At the **City of Hobart Mine**, the reef varied in dip around the vertical and was thought to have been displaced by a fault at the 174m level.

The **Miners Dream Mine** was close spaced sampled but results were disappointing.

Tasminex proposed one hole under each of the above two mines.

They regarded the reefs at Mangana to be more strike persistent than at Mathinna. They identified the **Argyle Mine**, which is a SE extension of the Golden Entrance Mine, as warranting investigation.

The main Argyle reef was developed by three adits - the No. 1S, No. 2S, and No. 2N. Production between 1900-1905 was 2400oz. from 604 tonnes ore at an average 124g/t.

Tasminex sampled the No. 1S adit (Figure 12). The vein averaged 0.5m wide and samples averaged 31g/t. They re-opened the lower No. 2S adit for 38m and all eight samples taken from across a 0-2.0m wide sulfidic quartz reef zone were <0.3g/t Au. This is not surprising because the south plunging reef in the No. 1S Adit would be present in the 80m of No. 2S Adit which was not re-opened. They recommended one drill hole to test this reef.

Despite all the recommendations for drilling by Tasminex in the Mathinna-Mangana area, no drilling was undertaken (or at least reported). They appear to have rapidly lost interest in the primary gold potential of the region and turned their remaining attention to tailings retreatment opportunities.

Tailings Retreatment:

Tasminex completed various resource definition and metallurgical studies on a number of tailings dumps in the Mathinna-Mangana area, concentrating on the New Golden Gate tailings.

They decided at an early stage to pursue a heap-leach treatment route. Their resource estimate of the New Golden Gate at 265,000 tonnes 1.5g/t compares with 323,000 tonnes by the Department of Mines in 1948.

Other dams in the district were estimated at:

City of Hobart	6000t	0.43g/t
Mangana Reefs	9000t	0.82
Volunteer	4000t	0.65
Twilight	2000t	2.38
City of Melbourne	1000t	2.07

The total district was therefore about 300,000 tonnes of 1-2g/t material.

Tasminex concluded that the primary, alluvial, and tailings retreatment potential of the area was unattractive and withdrew from the region.

5.2.9 **Australian Anglo American Corporation 1981-82** (South Esk River):

References 1/32-35,37,38,42,43,45.

Anglo identified the South Esk river flats between Fingal and Mathinna as representing a large volume alluvial target containing gold shed from the extensively eroded Mathinna and Dans Rivulet goldfields. (Fig 3)

Initially they attempted to define paleochannels using ground magnetics. This was unsuccessful so drilling commenced in 1981 using a Gemco 210B rotary rig. They acknowledged that this rig was unsatisfactory for anything other than quantifying alluvial volumes (ie) depth to bedrock. However, samples were collected, screened to -20 mesh and panned to a 10-30g concentrate.

In this first program, 47 holes were completed on nine lines on 400 metre centres.

Potentially large volumes of alluvials were indicated in two sedimentary regimes north of Beauty Flat Road:

- lacustrine environment
- fluvial channels on west side of valley.

A second program of 233 holes totalling 2526m was completed on 80m centres along lines 800m apart north of Beauty Flat Road using an RC rig. Samples were deslimed, cradled and panned. This program indicated the alluvials were generally <8m thick and low grade.

A third program of detailed drilling was completed in the Marshalls Flat area where alluvials were up to 14m thick but averaged six metres. Spot values up to 1305mg/m^3 were obtained, with some holes in the 200-500mg/m^3 range. However block grades were generally <100mg/m^3.

Some cable tool drilling was then undertaken north and south of Beauty Flats Road to check the validity of RC sampling.

Cable results were generally 50% of RC results.

Anglo concluded that the most promising area was on Marshalls Flat where alluvials were 6-8m thick and 1-2Mm^3 at 50mg/m^3 were indicated.

This resource did not meet minimum target sizes, so the project was abandoned.

Prior to relinquishing the E.L., Anglo undertook some stream sediment sampling over outcrop areas in the N.E. and W of the licence

area. Orientation studies indicated the -20+40 mesh fraction was best. They then collected 201 samples which were assayed for Cu, Pb, Zn, As, Au.

Au and As anomalies were outlined in the Miami-Mullers-Little Hospital Creek area, which may all be attributed to the scattered small scale mining operations at the Daylight-Great Fingal Mines.

Follow up work was cursory and the E.L. was relinquished.

5.2.10 **Oceania Tasmania Pty Limited 1984-88** (Alberton):

References 1/47,48,54,57,58,63

Oceania held the principal mines of the Alberton district under E.L. 23/82 from 1984-88. Their search objectives were extensions to the lode deposits of the Long Struggle, Mercury and Ringarooma Mines, and to a lesser extent, the alluvials in the Dorset and New Rivers.

They regarded the main primary deposits as occurring in the west limb of a regional N-S anticline which had been deformed and broken by a period of later NE trending cross-folding. Mineralisation was considered strongest where the cross-folding deformation was greatest.

Oceania re-opened the main adits of the above three mines. In the Ringarooma and Mercury Mines they described main vein formations as being 1-1.5m wide, with lode formations 10-20m apart. The ground between the formations is unmineralised.

Apart from clearing out adits, Oceania appears to have done little other work during the currency of the Licence. They experimented in a relatively crude fashion with EM as a means of locating concealed quartz veins. However the results and usefulness of this work is questionable.

In 1987, Renison Goldfields Consolidated Limited was exploring for gold over the north half of the Lyndhurst-Mangana zone. As part of this work, they received permission from Oceania to map and sample the principal workings on the Alberton Field. The results of this work are reviewed in 5.2.11 below.

When Oceania relinquished E.L. 23/82, they acquired three 100 hectare Mining Leases over the main workings to enable them to continue working in the area. These leases are current, and some minor underground exploratory work is in progress.

5.2.11 Renison Goldfields Consolidated 1986-87 (Alberton Area)

Reference 1/59,60,73.

In 1982, RGC commenced a detailed review of all known gold deposits in NE Tasmania (Appendix 12). They produced a comprehensive deposit data base (1/73) for the whole Alberton-Mangana zone. The data base was essentially reproduced and upgraded in the Alberton area for this report (Appendix 5) and used extensively by the Department of Mines for their Mathinna and Mangana reports (Appendices 5,7).

This regional review led RGC to acquire E.L. 17/86 over the northern half of the Lyndhurst-Mangana zone from Branxholm to Dans Rivulet.

Most of the former mines in this zone were located and where accessible, mapped and sampled.

RGC's target was bulk mineable quartz vein stockwork mineralisation. It was rapidly concluded that stockworks adjacent to major veins, or high concentrations of major veins did not exist in their E.L. area.

The Alberton field (held by Oceania) was identified as being the most prospective area for the target model and Oceania gave permission for RGC to map and sample their E.L. 23/82. Fig 10 of the Alberton Field is largely based on the RGC work.

RGC concluded the Alberton mines occurred in a narrow NNW zone of tight folding. Stockwork vein systems were unlikely, but areas of close spaced major veins were possible.

All accessible workings were mapped and sampled in detail. At the Mt. Victoria Mine, an 18m quartz vein stringer zone from 166-184m assayed 2.52 g/t. This zone was apparently evident in the lower two adits but not in the upper adit. It appears to cross-cut bedding and cleavage and may represent fault or fissure in-filling.

They reviewed at length the results of the 1933 Department of Mines underground drilling on the Long Struggle Mine, and concluded:

- Hole 1 intersected 2.5m (horizontal) 15g/t Au representing the northern extension of the Long Struggle Reef which had split into three bedding parallel quartz reefs within an overall reef formation 2.5m wide.
- 33m E of this reef, Hole 1 intersected an extension of the Caxton No 1 Reef which assayed 3.6g/t over 0.6m.
- Hole No 2 was drilled parallel to anticipated reefs.
- Hole No 3 was prematurely abandoned.

RGC withdrew from all exploration activities in N.E. Tasmania in 1987 because of other priorities.

5.2.12 Epoch 1985 (Mathinna)

Reference 1/52

When Tasminex withdrew from the Mathinna area, Epoch Minerals Exploration N.L. acquired E.L. 35/81 with a view to retreating the New Golden Gate tailings.

They thoroughly reviewed all past testwork on the tailings and concluded that whilst the insitu grade was approximately 1.5g/t, various cyanidation extraction routes would recover considerably less than that:

- heap leaching: 0.55g/t recovered
- agitated leaching: 0.75
- grinding followed by agitated leaching 0.85

Epoch was discouraged by these results and decided not to proceed with further studies. They entered into an agreement with Alex White to take over the tenements.

5.2.13 K.A. White 1983-90: (Mathinna-Mangana Area)

(Reference 1/49,51,56,61,65,66,69,77)

E.L. 55/83 has essentially been explored by Alex White for eight years under various names and joint venture: as K.A. White, then Tasmanian Alluvials, then Alcaston Mining N.L., then Pegasus Gold Australia Limited.

Work has been directed at:

- alluvials at Mangana and Mathinna
- tailings and dump retreatment
- primary gold

Alluvials:

White concentrated on testing alluvials in three areas:

- Majors Gully north of Mangana
- Black Horse Gully west of Mathinna
- South Esk River flats north of Mathinna

In 1984, 17 backhoe holes were completed in **Majors Gully**. Results were encouraging but were not followed up until 1985 when a number of trenches and pits were dug and the 800m^3 bulk samples obtained were processed through an on-site pilot plant. The alluvials

averaged 2.7m thick over widths of 55m.

A resource of 300,000m^3 of 307mg/m^3 was estimated, and most of the gold was present in the lower gravel layer.

In 1987, E.L. 55/83 was transferred to Alcaston Mining N.L., who estimated the Tower Rivulet and tributaries (including Majors Gully) contained a possible 7.4Mm^3 of alluvials.

A production processing plant was constructed but subsequent results were disappointing. The plant has not operated now for several years.

The remaining resource in Majors Gully is estimated at 250,000m^3 300mg/m^3.

At **Black Horse Gully** in 1986, three costeans were dug for bulk samples, and 16 excavator holes were dug to establish wash: overburden ratios.

The bulk samples were each approximately 750m^3 and were processed through Alex White's pilot plant at Lisle.

Results were:

Costean 1 (Dunn St) 240mg/m^3
Costean 2 (Upper Esk Road) 160mg/m^3
Costean 3 (Black Horse Gully) 270mg/m^3

A resource estimate was 750,000m^3, including 500,000m^3 of greater than 240mg/m^3.

Average wash depth was 2-3m, and the overburden: wash ratio was in the range 1:1-1:5.

Some limited testing of alluvials on the **South Esk River flats** was apparently undertaken in 1987 in the Midson's Flats area, which is upstream of the areas tested by Anglo in 1981. The target was a large volume of dredgeable material close to where Black Horse Gully and Long Gully Creek join the South Esk River

The work appears to have been limited (possibly by landowners) and no results are reported.

Tailings and Dump Retreatment:

White acquired rights to the New Golden Gate tailings from Epoch. He has recently received government permission to cyanide heap leach the tailings and has established some plant on site. Problems were experienced in 1991 with local sheep graziers down stream, however the problems were not attributed to White and the issue has been resolved.

It is believed no actual retreatment has yet taken place.

In 1985, tailings dams were sampled at several former mines in the district:

Mangana Reef	1.6g/t
Fingal Reef	1.4
Union Reef	2.59

No estimates of tonnages were made.

The Mangana Reef tailings grade is double that obtained by Tasminex.

Primary Gold:

Primary gold exploration on E.L. 55/83 has been concentrated in the New Golden Gate, Tower Hill and Argyle Mine areas, eventuating in drilling programs on the latter two areas.

In 1985, a detailed review of the geology of the whole E.L. was undertaken (Ref. 1/49) and the main conclusions were:

- the NE and NNE quartz reefs were fissure fillings resulting from dextral rotation on a NW-SE shear couple.
- EW (or NE) reefs tend to have longer strike lengths than NW (bedding and cleavage conformable) ones.
- dextral movement on the NW goldfield lineament is conjugate to sinistral movement on the parallel Tamar Fracture System.
- quartz veins were either fault bound (New Golden Gate) or stratabound (Horseshoe, Jubilee, Eldorado, Oldboys, Tower Hill).
- there were two phases of gold mineralisation; an earlier one accompanying sulfides and a later one as discrete gold.
- scope for strataform or saddle reef deposits is limited.

A rather unique and interesting interpretation was placed on the reefs at the New Golden Gate which were interpreted as forming within two main lode channels:

- a 30m wide eastern channel carrying Loanes and Main Reefs.
- a 33m wide western channel carrying central and Western Reefs.
- near surface, these formations consisted of stringer mineralisation and it was only in No. 1 and No. 2 Levels did discrete reef structures develop (it is interesting to rethink the importance of the stringer zone in the lower levels of the Victoria Mine at Alberton in this context).

It was suggested that these two wide lode channels or formations continued northward towards the North Golden Gate Mine.

Tower Hill was interpreted (as by all previous workers) as a 30m wide quartzite unit, approximately 250m long, carrying numerous narrow quartz veins with a random orientation.

The exploration target at this stage was low grade open cut gold mineralisation and the geological studies highlighted three possibilities:

- northern extensions of the two main New Golden Gate shear zones.
- Tower Hill north of Mangana
- Golden Entrance/Argyle Mine at Mangana.

Further work on these areas was apparently not undertaken until 1988 when Alcaston took control of exploration. Under their direction, the following programs were undertaken:

- structural analysis of the Mangana-Mathinna area using satellite imagery.
- sampling and drilling the Golden Entrance/Argyle Mine.

The **structural analysis** work indicated fold structures developed adjacent to both sides of a major structural zone encompassed most of the Mathinna and Mangana deposits.

Cleavage trends around Mangana show a deviation from the regional NNW-NW trend.

This structural analysis was largely repetitive of a number of previous studies and predictably the conclusions were similar.

At the **Argyle Mine** (Fig. 12) Alcaston took 38 chip samples from accessible workings and completed eight percussion holes.

Results of the chip samples were disappointing when compared with the results of the 1981 Tasminex sampling whose samples from No. 1 South adit averaged 31g/t from a reef structure averaging 0.44m wide. Of the 38 Alcaston samples, 21 were <0.1gt and 13 were in the 0.1-0.76g/t range. In the No. 1 South adit, two samples assayed 10g/t and 9g/t whilst in the No. 2 South adit, two samples assayed 4.9g/t and 3.1g/t.

Eight percussion holes totalling 245m were drilled. Logs and sections appear as Appendix 8. It was not clear from reports whether this drilling was open hole percussion or reverse circulation. Samples were collected through a cyclone and sub sampled with a spear. Whilst quartz veins were common, Au and As results were disappointing, with the best result in hole AA7 which intersected 8m 0.18g/t Au just below No. 2 South adit, with the highest assay being 1m 0.33g/t.

The effectiveness of this drilling program must be questioned (Fig. 12). Two of the holes were well west of the reef formation; one hole appears to have tested an adjacent reef to the west at a shallow depth; a further two holes penetrated the Argyle Reef 40m above the upper most workings and two further holes tested the Reef immediately beneath the No. 1 South adit. Only AA7 tested below No. 2 South.

In general, this program could not be regarded as a good test of the depth potential of this long, high grade reef formation.

In 1989, Alcaston entered into a joint venture with Pegasus to continue exploring E.L. 55/83. Pegasus concentrated their initial work on two projects:

- reassessment of previously flown Government aeromagnetics
- evaluation of the quartz veined sandstone units at Tower Hill.

Aeromagnetic data acquired by government as part of their NETGOLD project was reprocessed. It was concluded firstly that there may be some correlation between magnetic lows and gold mineralisation and secondly that carefully controlled magnetic surveys may be able to define quartz vein concentrations and thereby distinguish between mineralised and unmineralised ground.

It was therefore decided in 1990 to refly the area with a high resolution helicopter borne aeromagnetic survey. An interpretation of this data suggested structural trends within the Mathinna Beds may be expressed by subtle, systematic magnetic variations.

At **Tower Hill**, the quartz veined sandstone unit was gridded, mapped, chip sampled, soil sampled and covered with ground magnetic survey (Fig. 12).

Mapping defined two vertical, sub-parallel sandstone beds trending NW and separated and enclosed by slates. Quartz veins in the sandstones generally trend NE.

68 composite rock chip samples were taken from the high density quartz veined areas and assayed for Au, As, Pb; 17 of these samples, including 16 from dumps, assayed > 0.1g/t Au.

Soil samples were taken along grid lines with a hand auger; Pb values were low and Au, As values were patchy and generally low.

Ground magnetic data was spikey but the Mathinna Beds demonstrated relatively uniform magnetic properties. Some gross NW and NE trends were indicated. Magnetic lows existed over the Sunbeam and Tower Hill mines.

To follow up perceived anomalous zones, 13 RC holes were completed at Tower Hill in 1990 (Fig. 12). Logs and sections are attached

(appendix 9). Numerous quartz veins were intersected, some carrying pyrite, arsenopyrite and minor chalcopyrite.

Gold results in the four holes around the Tower Hill Mine were very low.

The best results were obtained in holes TH10 and TH11. These two holes were 50m apart and drilled NW beneath the Sunbeam Mine. Considerable variation was encountered between the original fire/AAS assays and the screen fire assay repeats. This is not unexpected in the Alberton-Mangana region where coarse gold presents assay problems.

TH10	Au (g/t)	Au (screen-fire)	As (p.p.m.)
11-12	0.2	0.20	70
12-13	0.35	0.43	70
13-14	0.81	2.08	85
14-15	0.28	2.26	9
TH11			
33-34	1.79	4.28	1300
34-35	0.63	0.74	3000
35-36	4.54	4.03	4700

It is possible these two intersections were on the same NE trending vein. Adjacent holes TH12 and TH13 were drilled at right angles to TH10 and TH11 (ie) parallel to this possible vein, and their low values suggest they missed the vein.

It is instructive to note the significant width of the As geochemical halo around the intersections in TH10 and TH11 (see logs). This is a useful exploration tool in this region and is commented upon further, later in this report.

At the conclusion of this work, Pegasus and Alcaston appear to have withdrawn from the area and the E.L. relinquished.

Alex White has subsequently applied for E.L. 17/91 and E.L. 18/91 over the Mathinna and Mangana areas respectively.

5.2.14 Mineral Holdings 1989: (Dans Rivulet Area)

Reference 1/67

In 1989, Mineral Holdings tested the alluvials on Rosedale Flat for cassiterite which was indicated by two previously drilled Department of Mines holes.

The Department's holes were drilled primarily to test the theory that the Dans Rivulet represented the northern continuation of the main Mathinna shear zone.

The existence of cassiterite in sludge from one of these holes is regarded as highly suspicious.

However, Mineral Holdings completed 12 churn drill holes and one excavator pit. No cassiterite was found and only very minor gold recorded in several of the churn drill holes.

The area was relinquished.

5.2.15 Cominex 1989-90: (West Tower Hill area)

Reference 1/71,76

Cominex is a family company operated by Hugh Nolan. In 1989, it held E.L. 55/88 on the west flank of Tower Hill.

Interest in this area, which lies to the west and outside the main Alberton-Mangana gold zone, was generated by the recent discovery of several narrow quartz veins by local prospectors Wallis and Roddam.

Nolan decided to take advantage of the presence of the aircraft completing the 1989 government aeromagnetic survey of the Alberton-Mangana area, and had them extend the survey west over E.L. 55/88.

Results again confirmed the magnetic blandness of the Mathinna Beds.

Following discouraging assay results from a limited number of chip samples, the Licence was relinquished.

5.2.16 Placer Exploration Limited 1989-90 (North of Mathinna):

References 1/74,75,80,81.

From 1989-90, Placer held E.L. 3/90, 10/89 and 8/89 to the NE and NW of Mathinna. Their target was Carlin or Ketza River style gold mineralisation.

Exploration methodology required taking both regional drainage sediment samples for bulk cyanide leaching, and stream sediment samples which were assayed for Cu, Pb, Zn, Ag, Au, As. Sample sizes were 5kg of -6mm material for the BCL tests and 1kg of -20 mesh silt for the stream sediments.

E.L. 8/89 covered the **Evercreech area** north of E.L. 17/91 (White) and in the far NE of Newcrest E.L. 22/92. BCL anomalies were obtained in Claytons and Evercreech Rivulets. Follow up stream sediment sampling on creeks and tributaries defined some low order spotty anomalies which could be traced to localised zones of minor quartz veining. Some anomalies were attributed to the King Mine.

Results were generally considered discouraging and the licence

was relinquished.

E.L. 3/90, **north of Mt. Saddleback** lay largely west of E.L. 23/92 (Newcrest). Similar surveys to those on E.L. 8/89 defined one unexplained anomaly near Olivers Hill. No source was identified by Placer but it may have been related to the Golden Possum workings.

E.L. 10/89, **west of Mt. Saddleback** again lay west of the Newcrest tenements. Similar surveys defined anomalies in three areas:

- Memory Creek
- Tombstone Creek headwaters
- Sweets Creek

The first two anomalous areas appear to fall within the Scottsdale Batholith. Follow up sampling failed to confirm the anomalies.

However, follow up sampling did confirm the Sweets Creek anomaly which was traced to a silicified quartz vein stockworked zone of Mathinna Beds in the headwaters of Sweets Creek. The outcrop area was 5-10m wide and 120m long (ref. 1/81).

The zone was mapped, chip sampled and partially soil sampled. It is strongly cleaved (320-330Mag-80^{0}NE) and brecciated with interstitial hematite, chlorite and mica, but no sulfides at surface. Strong anomalous As and patchy anomalous Au values were recorded in rock chips over a strike length of 200m.

Au and As grades increased to the north where sampling was halted by thick bush.

Placer tested the anomaly no further.

This area at 561600E, 5415600N lies outside Newcrest's E.L. 23/92 (Fig. 3) but is recorded here as an area of significant interest. The anomalous arsenic may represent a geochemical halo surrounding concealed gold mineralisation in a sizeable stockwork zone adjacent to the Scottsdale Batholith.

5.2.17 Billiton Australia 1989-92: (North East Tasmania Regional)

References 1/82,83.

Billiton identified NE Tasmania as a potential target area for the discovery of large tonnage open cut gold deposits, containing a minimum 15t. Au.

To better assess this potential, they undertook a variety of office studies, reconnaissance field mapping, and regional stream sediment surveys. Their initial target area was virtually the whole of NE Tasmania and encompassed the two Newcrest tenements.

They used landsat imagery to complete a fracture analysis of

NE Tasmania (no map sighted) designed to identify dominant structural trends and then integrate the results of this work with existing regional gravity, geology and metallogenic data.

On the basis of this regional review they concluded:

i) gold mineralisation is spatially separate from Sn, W, Cu, Pb, Zn mineralisation in the region.

ii) gold mineralisation is related to NNW structural linears in Mathinna Beds.

iii) gold is genetically associated with granodiorite and some occurs within the contact metamorphic aureole.

iv) many NNW structures exist but only some have associated gold mineralisation.

v) all gold deposits occur in a WNW gold corridor 90km x 25kms from Beaconsfield-Lefroy in the NW to Mangana-Golden Ridge in the SE.

The first four of these conclusions were previously well known features of the area. The fifth conclusion is curious. To place all the gold deposits of NE Tasmania in one WNW "corridor" as opposed to a number of parallel NNW corridors is difficult to support.

Billiton had three deposit models in mind (Fig. 9):

- Sheeted or stockworked quartz vein systems in hornfelsed Mathinna Bed aureoles in strong structural zones near granodiorite intrusions.

- Epithermal Au-Ag mineralisation associated with the St Mary's porphyry.

- Structurally controlled gold in late stage differentiates of Scottsdale and Blue Tier Batholiths.

The latter two models are not applicable to the Newcrest areas.

Billiton selected 40 areas which met most of their exploration and model criteria and further investigated these with reconnaissance mapping, and regional BCL and -80 mesh stream sediment sampling programs.

They regarded the development of prominent contact aureole zones in Mathinna Beds as important to their target search. To this end, they completed a review of contact metamorphism in NE Tasmania (appendix 11), which did not rate the region highly for thermal aureole gold mineralisation. The report appears to genetically link all the gold to granites and places emphasis on gold migration within the thermal aureole.

These genetic and migration models are possibly not applicable or important in NE Tasmania, hence this report possibly adds little to exploration philosophy in the region.

However, the thermal aureole studies combined with regional geochemistry led Billiton to concentrate on two areas:

- Golden Ridges near the Blue Tier Pluton
- Mathinna-Mangana which they identified as gold anomalous (!) and the most extensive hornfelsed roof zone in the region.

Most of their subsequent work was concentrated on the Golden Ridges area, which lies off the NE corner of E.L. 22/92.

In 1991, they entered into an agreement with Aureole N.L., American Horizon Resources Inc., and Federation Resources N.L., who jointly held E.L. 58/88 over the Golden Ridge area.

In this area, Mathinna Beds have been intruded by the Poimena Pluton and the Pyengana Granodiorite. Scattered gold mineralisation occurs in a one kilometre wide zone of hornfelsed sediments which have historically been prospected by a variety of shafts, trenches and adits.

They completed a one sample/sq. kilometre BCL stream sediment survey and decided to relinquish the western half of the Licence in early 1992 and concentrate further work on the Brilliant Creek area.

It is not known if Billiton are still involved with E.L. 58/88

5.2.18 **Department of Mines:**

The Department of Mines has been an active explorer in the Alberton-Mangana region since the 1850s.

Their work can be broadly grouped under three headings:

- Mine and district inspections
- Core drilling programs
- Regional studies.

Mine and district inspection reports are numerous (appendix 2). Collectively they provide a useful insight into the geology and prospectivity of individual mining operations and mining districts.

The more comprehensive district reports include:

- Alberton: Blake 1933 (Ref. appendix 2/4).
  Hughes 1952 (2/23).
  Twelvetrees 1900 (2/56/59).

- Dans Rivulet: Hughes 1947 (2/20).
  Twelvetrees 1904 (2/58).

- Mathinna: Finucane 1935 (2/13).
  Henderson 1941 (2/16).
  Twelvetrees 1906,1907 (60, 61, 63).

- Mangana: Finucane 1935 (2/13).
  Twelvetrees 1907 (2/62).

References to descriptions of individual mines are contained in the deposit data sheets presented in Appendix 5 (Alberton), 6 (Mathinna) and 7 (Mangana).

Core drilling has been undertaken by the Department for two basic reasons:

- test extensions of known deposits
- evaluate geological concepts.

A list of Departmental drilling appears as Appendix 3. Holes which refer to the Newcrest tenements are marked with a full dot while those in adjacent areas are marked with an open dot. This list is neither up to date nor complete because, until recently, private drilling undertaken on Mining Leases did not have to be reported to the Department. Hence much of the drilling completed by both private companies and the Department on the New Golden Gate (underground and surface) is not reported or recorded and logs are difficult to locate.

Departmental **lode extension drilling** programs were completed in the 1930's on the Krushka, Prendergast and Long Struggle mines (Alberton) and on the New Golden Gate (Mathinna); in the 1950s on O'Briens Mine (Dans Rivulet); in the 1960s on the Starlight-Carnegie (Dans Rivulet).

The drilling at **Krushka** and **Prendergast** failed to intersect significant mineralisation or reef structures (Fig. 3).

Of the three underground holes at **Long Struggle**, one was abandoned, another may have drilled parallel to the target and the third intersected north extensions of both the Long Struggle and Caxton reefs. The Long Struggle reef assayed 15g/t over 2.5m (horizontal) and the Caxton 3.6g/t over 0.6m (horizontal).

Records of drilling at the New Golden Gate are difficult to locate, but it is known that several holes were completed north and south of the

mine looking for reef extensions. This data will probably emerge with persistent effort.

Five holes were completed at the O'Briens Mine in 1954-55. One hole intersected 4.5m 10g/t Au.

Two holes were completed east of O'Briens on the Starlight-Carnegie workings. Results were disappointing.

Following completion of a major study of the Waterhouse-Mangana field by Threader, the Department drilled two holes at Mathinna, two at Dans Rivulet and four at Alberton to **test theories** developed in that study (see below).

The results of this conceptual drilling are unclear because most of the holes have not yet been reported upon. However, it is known that no significant mineralisation was intersected.

The Department has undertaken a number of **regional geological and geophysical studies** in order to highlight the region's potential and assist explorers.

In 1967, Threader completed his MSc thesis on the geology of the Mangana-Waterhouse district. One of his main conclusions was that the gold mineralisation was concentrated adjacent to a major NNW structurally deformed zone, offset at regular intervals by later NE trending cross structures.

This structural control on gold mineralisation has been further refined by later Departmental workers. In Unpublished Report 1989/42, the effects of later NE trending mega kink bands on the earlier NNW cleavage are illustrated (Fig. 6(a) and (b)), and the impact of these intersecting structural trends on the location of mineralisation is discussed in Report 1992/10 (appendix 6).

Recently, the Department commenced a major long term project called NETGOLD (North East Tasmania Gold) designed to more fully understand and promote the gold potential of the area. Data reviews of the Dans Rivulet, Mathinna, Mangana areas (appendix 6, 7) were the first step in this project. Future work has been slowed by Government cutbacks.

The Tasmanian Government has co-operated with the BMR to produce a 1:500,000 aeromagnetic map of NE Tasmania, and in 1989 the Department completed a detailed aeromagnetic survey over the Alberton-Mangana area (Fig. 4 - transparency accompanying this report). A brief Departmental report 1989/19 refers to this survey and concluded:

- The area is underlain by granodiorite at 1-2 kilometre depth.
- Gold zone occurs in a narrow depression in the roof of this granodiorite basement.

APPENDIX 2:

DEPARTMENT OF MINES AND PUBLISHED REFERENCES:

1. Andrews, T.J. 1899, "Description of the Cyanide Process at the New Golden Gate Mining Company, Mathinna"
Tas. Dept. of Mines, Pub. Rept. 146.

2. Baillie, P.W. Collins, P.L.F. 1984, Editors "Mineral Exploration and Tectonic Processes in Tasmania, Nov. 1984"
Geol. Soc. of Aust., Tas. Div.

3 Baird, J. 1959, "Recent Developments at Daylight Gold Mine, Fingal"
Tas. Dept. Mines Pub. Rept. on Economic Geology.

4 Baird, J. 1960, "Gold Prospecting near Fingal, Northeastern Tasmania"
Tas. Dept. of Mines Pub. Rept. on Economic Geology.

5 Baird, J. 1960, "Additional Prospecting by G. Lowe at Mathinna"
Tas. Geol. Surv. Tech. Rept. No. 5.

6 Barrett, 1927, "Golden Entrance Mine"
Tas. Dept. Mines Typescript Rept.

7 Blake, F. 1933, "Preliminary Report on the New River Goldfield"
Tas. Dept. of Mines Unpub. Rept.

9 Blake, F. 1939, "Mangana Goldfield"
Tas. Dept. Mines Unpub. Rept.

10 Blake, F. 1940, "Great Fingal Workings, Fingal District"
Tas. Dept. Mines Typescript Rept.

11 Blake, F. 1940, "Report on Miami and West Miami Mines"
Tas. Dept. Mines Unpub. Rept.

12 Blake, F. 1940 "Hit or Miss Mine"
Tas. Dept. Mines Unpub. Rept.

13 Clark, 1915 "Twilight Gold Reefs"
Tas. Dept. Mines Typescript Reports.

14 Cocker, J.D. 1977, "Petrogenesis of the Tasmania Granitoids"
Ph. D. Thesis, University of Tas.

15 Cocker, J.D. 1982, "Rb-Sr Geochronology and Sr Isotopic Composition of Devonian Granitoids, Eastern Tasmania"
J. Geol. Soc. Aust., 29, pp 139-158

16 Collins, P.L.F. and Williams, E. 1986, "Metallogeny and Tectonic Development of the Tasman Fold Belt System in Tasmania"
Ore Geology Reviews 1, pp 153-201

17 Finucane, K.J. 1932, "Preliminary Report on the Mathinna Goldfield"
Tas. Dept. Mines, Typescript Reports.

18 Finucane, K.J. 1932, "Report on Hinemoa Mine, South Mount Victoria"
Tas. Dept. Mines Unpub. Rept.

19 Finucane, K.J. 1932, "Report on the Pride of Hills Line of Reef, Mathinna"
Tas. Dept. Mines Unpub. Rept.

20 Finucane, K.J. 1932, "Report on Brock Brothers Mine at Richardson's Creek, Mangana"
Tas. Dept. Mines Unpub. Rept.

21 Finucane, K.J. 1932, "Report on C.A. Brock's Prospecting Operations at Fern Tree Gully, Mangana"
Tas. Dept. Mines Unpub. Rept.

22 Finucane, K.J. 1932, "Report on Argyle Mine, Mangana"
Tas. Dept. Mines Unpub. Rept.

23 Finucane, K.J. 1935, "Mathinna and Tower Hill Goldfields"
Tas. Dept. Mines Survey Bull. No. 43.

24 Gascombe, B.D. and Findlay, R.H. 1989, "Mega Kinking in the Mathinna Beds of North East Tasmania"
Tas. Dept. Mines Unpub. Rept. 1989/42.

25 Gepp, Stillwell, Nye, 1933, "Gold Resources of Tasmania"
Tas. Dept. Mines Unpub. Rept.

26 Gould, C. 1869, "Gold at Mangana"
Tas. Dept. Mines Pub. Rept. No. 20.

27 Henderson, Q.J. 1936, "Prospecting Operations, Lady Havelock and Loranda Mine, Dan Rivulet"
Tas. Dept. Mines Unpub. Rept.

28 Henderson, Q.J. 194(?), "Rayners Prospect - South Mount Victoria"

29 and "Preliminary Report on the Geology of the Mathinna Goldfield"
Tas. Dept. Mines Unpub. Rept.

30 Higgins, N.C. Solomon, M., Varne, R. 1985, "The Genesis of the Blue Tier Batholith, North-East Tasmania, Australia"
Lithos., 18: 129-149.

31 Hills, 1923, "Mt. Victoria Goldfield, (Preliminary Report)

32 and "Mt. Victoria Goldfield"
Tas. Dept. Mines Unpub. Rept.

33 Hudson, J.O. 1940, "Supplementary Report on Miami and West Miami Mines"

34 and "Supplementary Report on the Sampling of the Great Fingal Gold Mine"
Tas. Dept. Mines Unpub. Rept.

35 Hughes, T.D. 1947, "Proposed Drilling at New Golden Gate Mine, Mathinna"

36 and "Dan Rivulet Goldfield"
Tas. Dept. Mines Unpub. Rept.

37 Hughes, T.D. 1948, "Boring at Golden Gate Dumps, Mathinna"
Tas. Dept. Mines Unpub. Rept.

38 Hughes, T.D. 1952, "Proposed Boring, Long Struggle Area, Alberton"

39 and "Alberton Goldfield"
Tas. Dept. Mines Unpub. Rept.

40 Hughes, T.D. 1954, "Preliminary Report on O'Briens Mine, Dan Rivulet"
Tas. Dept. Mines Unpub. Rept.

41 Keid, H.G.W. 1951, "Heathorns Gold Prospect, New River"
Tas. Dept. Mines Unpub. Rept.

42 Krause, F.M. 1983, "Auriferous Drifts of the South Esk Valley, in the Neighbourhood of Fingal"
Tas. Dept. Mines Pub. Rept. No. 38.

43 Klominsky, J., Groves, D.I. 1970, "Contrast in Granitic Rock Types Associated with Mineralisation in Tasmania"
Proc. Aust. I.M.M., 234: 71-77.

44 Leaman, D.E., Richardson, R.G., Shirley, J.E. 1980, "Tasmania - the Gravity Field and its interpretation."
Tas. Dept. Mines Unpub. Rept. 1980/36.

45 Leaman, D.E., Richardson, R.G., 1992, "Geophysical Models of the Major Tasmanian Granitoids"
Tas. Dept. Mines Unpub. Rept. 1992/11.

46 Longman, M.J. 1966, "Explanatory Report Geological Map Series 1:250,000 Launceston Sheet)
Tas. Dept. Mines

47 Marshall, B. 1969, "Geological Atlas One Mile Series. Pipers River Explanatory Report, Zone 7, Sheet 31"
Geol. Surv. Tas.

48 McLenaghan, M.P., Williams, P.R. 1982, "Distribution and Characterisation of Granitoid Intrusions in the Blue Tier Area"
Tas. Dept. Mines Geol. Surv. Paper No. 4.

49 McLenaghan, M.P., et. al. 1982, "Geology of the Ringarooma Boobyalla Area"
Tas. Dept. Mines Geol. Surv. Bull. 61.

50 McIntosh-Reid, A. 1925, "Wardlaw Prospect, Alberton"

51 and "Properties of the Ringarooma Gold Mining Company Alberton, Tasmania"

52 and "Report on the Miner's Dream Mine, Mathinna"
Tas. Dept. Mines Unpub. Rept.

53 McIntosh-Reid, A. 1929, "Reports on the Results of Mining Development at the 300 Foot Level of the Old Boy's Mine, Mathinna"

54 and "Advisory Report on the Golden Entrance Mine, Mangana"
Tas. Dept. Mines Unpub. Rept.

55 Montgomery, A. 1892, "Ben Lomond District"
Tas. Dept. Mines Pub. Rept. No. 95.

56 Montgomery, A. 1892, "Report on the Mathinna Goldfield"
Tas. Dept. Mines Pub. Rept. No. 96.

57 Montgomery, A. 1894, "Report on some portions of the Mangana Goldfield"
Tas. Dept. Mines Pub. Rept.

58 Noldart, A.J., Threader, V.M. 1965, "Gold Deposits of Tasmania"
Geol of Aust. Ore Deposits, Aust. I.M.M., 8th C'wealth Mining & Met. Cong., Melbourne.

59 Nye, P.B. 1923, "Auriferous Deposits in Tasmania"
Tas. Dept. Mines Unpub. Rept.

60 Nye, P.B. 1924, "Jubilee Mine, Mathinna"
Tas. Dept. Mines Unpub. Rept.

61 Nye, P.B. 1926, "Report on A.L. Fowlers Alluvial Deposit, Alberton" and "Report on M. Wallace's Prospect, Alberton"
Tas. Dept. Mines Unpub. Rept.

62 Nye, P.B. 1927, "Auriferous Deposits of Tasmania"

63 and "Report on Selection of Bore Sites for Missers H. & C. Brook, Mathinna District"
Tas. Dept. Mines Unpub. Rept.

64 Nye, P.B. 1929, "Notes on the Tower Hill Mine"
Tas. Dept. Mines Unpub. Rept.

65 Nye, P.B. 1930, "Report on the Tower Hill Mine - Tower Hill"

66 and "Report on Cheshire's Prospect at Richardson's Gully, Mangana"
Tas. Dept Mines Unpub. Rept.

67 Nye, P.B. 1931, "Forester, Warrentinna, New River, Alberton and Lyndhurst

Goldfield"
Tas. Dept. Mines Unpub. Rept.

68 Nye, P.B. 1933, "Preliminary Report, the Ringarooma United Mine:

69 and "Auriferous Deposits in Tasmania"

70 and "Mining Operations by Tucker, Little Hospital Creek, near Fingal"
Tas. Dept. Mines Unpub. Rept.

71 Nye, P.B. and Blake, F. 1938, "Geology and Mineral Deposits of Tasmania"
Tas. Geol. Surv. Bull. No. 44.

72 Nye, P.B. 1941, "O'Briens Mine, Dans Rivulet"

73 and "Report on C.R. Cox's Application for Assistance - New Eldorado Mine, Mathinna"
Tas. Dept. Mines Unpub. Rept.

74 Nye, P.B. 1941, "City of Melbourne Mine, Dan Rivulet"
Tas. Dept. Mines Unpub. Rept.

75 Reid, 1923, "Forest King and Alberton Mines"
Tas. Dept. Mines Unpub. Rept.

76 Reid, 1925, "Wardlaws Prospect, Alberton"

77 and "Miners Dream Mine, Mathinna"

78 and "Ringarooma Gold Mining Company, Alberton"
Tas. Dept. Mines Unpub. Rept.

79 Reid, 1929, "Jubilee Mine, Mathinna"

80 and "Golden Entrance, Mangana"
Tas. Dept. Mines Unpub. Rept.

81 Richardson, R.G., 1989, "The Mangana-Alberton Aeromagnetic Survey - a Preliminary Interpretation"
Tas. Dept. Mines Unpub. Rept. 1989/19.

82 Scott, J.B. and Nye, P.B. 1932, "Gold Mining in Tasmania"
Tas. Dept. Mines Unpub. Rept.

83 Scott, J.B. 1933, "Notes on the Boring Campaign at the Northern End of Alberton Field (New River)"
Tas. Dept. Mines Unpub. Rept.

84 Shaw, 1881, "Goldfield of the Colony"
Tas. Dept. Mines Pub. Rept. No. 25.

85 Solomon, M. 1981, "An Introduction to the Geology and Metallic Ore Deposits of Tasmania"
Econ. Geol. 76: 194-208

86 Threader, V.M. 1962, "Millers Prospect, Mt. Saddleback"

87 and "Diamond Drilling at Dan's Rivulet"

88 and "Prospecting at the Lady Havelock Mine"
Tas. Geol. Surv. Tech. Rept. No. 7.

89 Threader, V.M. 1963, "Proposed Drilling at Una Mine"
Tas. Geol. Surv. Tech. Rept. No. 8.

90 Threader, V.M. 1967, "Geology of the Mangana-Waterhouse Goldfields"
M.Sc. Thesis, Uni. of Tas.

91 Threader, V.M. 1987, "Diamond and Churn Drilling in the Dans Rivulet:
Tas. Dept. Mines Unpub. Rept. 1987/54.

92 Thureau, G. 1883, "Report on the Recently Discovered Gold Fields at Mt. Victoria of Dorset, Tasmania"
Tas. Dept. Mines Pub. Rept. No. 39.

93 Thureau, G. 1884, "Mt. Victoria, Dan Rivulet, Black Bay and Mangana Gold Fields"
Tas. Dept. Mines Pub. Rept. No. 58.

94 Twelvetrees, W.H. 1899, "Report on the Strata in the Shaft of the New Soverign Mine, Mangana"
Tas. Dept. Mines Pub. Rept. 145.

95 Twelvetrees, W.H. 1900, "Report on the North Mt. Victoria Gold Field"
Tas. Dept. Mines Pub. Rept. 155.

96 Twelvetrees, W.H. 1903, "Report on the Abbotsford Creek Gold Mine"
Tas. Dept. Mines Pub. Rept. 212.

97 Twelvetrees, W.H. 1904, "Report on the South Mount Victoria Mining Field"
Tas. Dept. Mines Pub. Rept. 226.

98 Twelvetrees, W.H. 1904, "Report on the Mt. Victoria Gold Field (North)"
Tas. Dept. Mines Pub. Rept. 227.

99 Twelvetrees, W.H. 1906, "Report on the Mathinna Goldfield, Part 1"
Tas. Dept. Mines Pub. Rept. 233

100 Twelvetrees, W.H. 1906, "Report on the Mathinna Goldfield, Part II"
Tas. Dept. Mines Pub. Rept. 234

101 Twelvetrees, W.H. 1907, "The Mangana Goldfield"
Tas. Geol. Surv. Bull. No. 1.

102 Twelvetrees, W.H. 1907, "The Mathinna Goldfield, Part III"
Tas. Geol. Surv. Bull. No. 2.

103 Twelvetrees, W.H. 1914, "On Some Gold Mining Properties at Mathinna"

Tas. Geol. Surv. Rept. No. 5.

104 Williams, E. 1959, "The Sedimentary Structures of the Upper Scamander Sequence and their Significance"
Pap. Proc. Royal. Soc. Tas., 93:29-32.

105 Williams, E. 1989, "Fold-related Mesoscopic Structures in the Mathinna Beds. Field Relationships Compared with Text Book Relationships"
Tas. Dept. Mines Unpub. Rept. 1989/41

APPENDIX B

Results of 1987 Percussion Drilling Programme around New Golden Gate shaft - Epoch Minerals Exploration NL

EPOCH

329096

DRILL LOG

Av by DM	-	Fire assays by Tasmania Department of Mines at Launceston Laboratory. Limit of detection 0.1ppm.
	-	Denotes separation of assay batches
Av ANALABS check	-	Check fire assays by Analabs at Burnie Tasmania
	-	Limit of detection 0.008ppm

329097

Project: Mathinna Co-ordinates: 50S 00 Az: 270°mn Date: 16/06/87

Hole No: PDH-1 Depth: 60m Declin.: 60° N Duncan

SAMPLE NO	INTERVAL	Au(ppm) by DM	Au(ppm) Analabs Check	DESCRIPTION
1/1	0-3	0.2	From 0-20m	INTERBEDDED SHALES AND QUARTZITE siltsones, phyllit
2	3-4	B		weathered weakly koulinitic and with a well developed
3	4-6	B	0.05	foliation.
4	6-8	B		Very fine grained and weakly stained with Feo through
5	8-10	0.5		interval.
6	10-12	0.2		Quartzites, minor thin interbeds, very fine grained
7	12-14	B	B	well cemented and very pale in colour.
8	14-16	B		
9	16-18	B		From 8-10m abundant white quartz with weak to moderate
1/10	18-20	B	B	FeO staining and minor 'gossanous' material.
11	20-22	B		
12	22-24	0.2	From 20-60m	
SHALE				
13	24-26	B	B	Shale with various silicous component and grading
14	26-28	0.2		almost into a slate at times.
15	28-30	0.2		Very fine grained, grey in colour becoming a little
16	30-32	B	0.17	darker with depth, and with occasional trace of clean
17	32-34	B		white quartz.
18	34-36	B		
19	36-38	B	0.05	
1/20	38-40	0.2		
21	40-42	B		
22	42-44	B		
23	44-46	B	0.01	
24	46-48	B		N.B. From 46-48 Clean white quartz (50% of cuttings)
25	48-50	B		with minor anhedral to euhedral fine grained pyrite
26	50-52	B		and tarnished sulphide (pyrite?) on edge of apparent
27	52-54	B		vein material.
28	54-56	B		
29	56-58	B	B	
1/30	58-60	B		

END OF HOLE

329098

Project: Mathinna Co-ordinates: 50S 15E Az: 270°mn Date: 17/06/87

Hole No: PDH-2 Depth: 82m Declin.: 60° N Duncan

SAMPLE NO	INTERVAL	Au(ppm) by DM	Au(ppm) Analabs Check	DESCRIPTION
0-3	2/1	0.2	From 0-20m	PHYLLITIC SHALES
3-4	2	0.2		Very pale brown weakly FeO stained, weathered and
4-6	3	0.2	B	weakly kaolinitic strongly phyllitic, very fine
6-8	4	0.2		grained with well developed foliation.
8-10	5	0.2		Minor pale brown very fine grained well cemented quartzite
10-12	6	B		from 0-3m 30% white quartz with minor FeO staining
12-14	7	B		from 4-6m 10% white quartz
14-16	8	B		
16-18	9	B	B	
18-20	2/10	0.2		
20-22	11	B	From 20-54m	
PHYLLITIC SHALES				
22-24	12	0.2		Very pale grey phyllitic,
24-26	13	0.2		very fine grained with well developed foliation
26-28	14	0.2	B	White quartz from 24-26m
28-30	15	B		46-50m
30-32	16	0.2		52-54m
32-34	17	0.2		Pyrite, generaly as trace from 28-54m occuring as
34-36	18	0.3	0.21	v.f.euhedral associated with white quartz, v.f. euhedral
36-38	19	B		concentrated on foliation and joint surfaces, coarse
38-40	2/20	0.4		chips of massive pyrite of v.f. euhedral and rare
40-42	21	0.4		v.f. euhedra disseminated in shales.
42-44	22	0.4		Minor pyrite from 28-30m
44-46	23	SNR		32-36m
46-48	24	0.4		44-52m
48-50	25	0.4		
50-52	26	0.4	B	
52-54	27	0.5		
54-56	28	0.4		
56-58	29	0.4		
58-60	2/30	0.5		
60-62	31	0.4	From 54-66m	SHALE
62-64	32	0.4	B	Very pale grey darkening in colour to 66m then dark
64-66	33	0.4		grey, very fine grained with well developed foliation.
66-68	34	0.3	From 66-82m	SHALE
				Dark grey, very fine grained with moderately well developed cleavage.
68-70	35	0.4		White quartz, from 76-78m, 40%
70-72	36	0.3		Pyrite, trace as very fine euhedral associated with white
72-74	37	0.4		quartz, concentrated or foliation and joint surfaces
74-76	38	0.4		and comprising coarse massive chips.
76-78	39	0.4	0.2	
78-80	2/40	0.3		
80-82	41	0.3		

END OF HOLE

B = below limit of detection 0.1ppm Au

329099

Project: Mathinna Co-ordinates: 70S 10E Az: 270mn Date: 17-18/06/87

Hole No: PDH-3 Depth: 58m Declin.: 60° N Duncan

SAMPLE NO	INTERVAL	Au(ppm) by DM	Au(ppm) Analabs Check	DESCRIPTION
0-3	3/1	B	From 0-22m	SHALE
3-4	2	B		Very pale brown phyllitic weathered weakly kaolinitic
4-6	3	B	0.01	and FeO stained, very fine grained with well developed
6-8	4	B		foliation.
8-10	5	B	B	Minor 'Gossanous' material
10-12	6	B		from 3-4 minor white quartz, FeO stained
12-14	7	B	B	from 12-14 minor friable FeO and very fine disseminated
14-16	8	B		FeO spotting in shale.
16-18	9	0.4		
18-20	3/10	B		
20-22	11	B	B	
22-24	12	B	From 22-47	SHALE
24-26	13	B		Very pale grey, very fine grained with well developed
26-28	14	B		foliation.
28-30	15	B	B	
30-32	16	B		White quartz from 36-38m, 35-40%
32-34	17	B		42-44m, 10%
34-36	18	0.3		44-46m, 5%
36-38	19	0.5	0.33	Pyrite from 26-28m, minor, very fine euhedral
38-40	3/20	0.3		disseminated in shales.
40-42	21	0.4	0.16	
42-44	22	0.3		
44-46	23	0.3	B	
46-48	24	0.2	From 47-58	BLACK SHALE
48-50	25	0.2		Very dark grey to black, very fine grained with well
50-52	26	0.2	0.01	developed foliation
52-54	27	0.2		White quartz 46-48m, 10%
54-56	28	0.2	B	48-50m, 25%
56-58	29	0.2		50-52m, 2.5%
				54-56m, 15%
				Pyrite and arsenopyrite from 48-50m, 54-56m
				occurs as fine grained euhedra associated with white
				quartz and rare massive, very fine grained eluledra.

329100

Project: Mathinna Co-ordinates: 75S 30E Az:270°mn Date: 18/06/87

Hole No: PDH-4 Depth: 86m Declin.: 60° N Duncan

SAMPLE NO	INTERVAL	Au(ppm) by DM	Au(ppm) Analabs Check	DESCRIPTION
0-3	4/1	0.2	From 0-18m	SHALE
3-4	2	0.2		Pale brown, phyllitic, very fine grained, weakly FeO
4-6	3	0.2		stained with well developed foliation.
6-8	4	0.2	B	
8-10	5	0.2		White quartz, minor, from 16-18m
10-12	6	0.3		
12-14	7	0.1		
14-16	8	0.3	B	
16-18	9	0.2		
18-20	4/10	0.3	From 18-32m	
SHALE				
20-22	11	0.3	B	Plae grey at first (18-24) then dark grey to black
22-24	12	0.2		then from 26m increasing amount of grey-green.
24-26	13	0.3		Very fine grained with moderately well developed
26-28	14	0.3	B	foliation. White quartz, minor, from 30-32m.
28-30	15	0.4		
30-32	16	0.3		
32-34	17	0.3	From 32-48m	
SHALE				
34-36	18	0.4	0.05	Grey-green, very fine grained, moderately well developed
36-38	19	0.3		moderate FeO staining of some cuttings between 46-48m
38-40	4/20	0.5		
40-42	21	0.5		Pyrite and arsenopyrite, minor from 42-48m, generally
42-44	22	0.5	0.05	as very fine to fine euhedra associated with white quartz
44-46	23	0.7		or coarse massive chips of v.f. euhedra.
46-48	24	0.6		
48-50	25	0.5	0.13 from 48-70m	SHALE
50-52	26	0.6		Pale grey, very fine grained, moderately well developed
52-54	27	0.3		foliation. White quartz from 48-50m, 20% Minor pryrite
54-56	28	0.1	0.06	and arsenopyrite
56-58	29	0.1		50-52, 10%
58-60	4/30	0.1		54-58,5% trace of arsenopyrite
				60-2, 15-20%
60-62	31	B		
62-64	32	0.2		62-64, 10%
64-66	33	0.2		64-66, 5%
66-68	34	0.2	0.27	66-68, 20% with pyrite .5-1%
68-70	35	0.2		68-70. 5% with minor pyrite
72-74	36	0.1	From 70-86m	
BLACK SHALE				
74-76	37	0.2		Black, very fine grained, moderately well developed
76-78	38	0.2		foliation. White quartz 70-76m. 15%
78-80	39	0.1	B	76-78m, 15%
80-82	4/40	0.2		78-80m, 10%
82-84	41	0.2		80-82m, 10%, traces pyrite and arsenopyrite
84-86	42	0.2		82-86m, 5%
86-88	43	0.1	B	

END OF HOLE

NB From 32m down sample damp.

329101

EPOCH MINING N.L.

Project: Mathinna | Co-ordinates: 25S25W | Az 277 | Date: 19/6/87

Hole No. PDH-5 | Depth 70m | Declin 60° | N DUNCAN

SAMPLE NO	INTERVAL	Au(ppm) (F.A.)		DESCRIPTION
5/1	0-3	0.5	From 0 - 24m	SHALE
2	3-4	0.5		Pale brown to brown, phyltitic in part, weathered
3	4-6	0.4	B	weakly kaulinitic and weakly FeO stained.
4	6-8	0.4		Weathering decreases at bottom with pale grey
5	8-10	0.4		shale becoming dominant. Very fine grained with
6	10-12	0.5	B	developed foliation.
7	12-14	0.5		Minor "gossanous" cuttings.
8	14-16	0.7		Pyrite, minor 20-24m.
9	16-18	0.7	0.23	White quartz, minor 22-24m.
5/10	18-20	0.6		
11	20-22	0.5		
12	22-24	B	From 24-48m	SHALE
13	24-26	B		Light grey, very fine grained with moderately well
14	26-28	B	B	developed foliation.
15	28-30	B		White quartz, 24-30m, py minor
16	30-32	0.4		30-34m 25% +py 1%, aspy trace to 1%
17	32-34	1.4		34-36m 75% +py 1%, aspy 1%
18	34-36	1.4		36-38m 60% +py 1%, aspy 1%
19	36-38	1.5		38-40m 20% +py 4%, aspy 1%
5/20	38-40	0.4	0.25	40-42m 60% +py 1%, aspy 1/2%
21	40-42	5.6		42-44m 80% +py 1%, aspy 1/2%
22	42-44	10.2	12.64	44-46m 60% +py 2%, aspy 2%
23	44-46	3.4	18.39	46-48m 50% +py 1/2%, aspy 1/2%
24	46-48	14.8	From 48-70m	BLACK SHALE
25	48-50	0.9		Very dark grey to black, very fine grained with
26	50-52	0.5		well developed foliation (stronger in darker
27	52-54	0.3		shale) higher colored shale tending to be more
28	54-56	B	1.78	silicous.
29	56-58	0.2		
5/30	58-60	0.2	1.96	
5/31	60-62	1.5		White quartz 48-50m 15% + pyrite minor
32	62-64	0.5		50-52m 50% + pyrite minor
33	64-66	0.3	0.44	52-56m 15% + pyrite trace to minor
34	66-68	B		56-60m 10% + pyrite trace
5/35	68-70	4.7		60-62m 60% + pyrite & aspy 1%
	END HOLE			62-66m 10% + pyrite & aspy trace
	At 70m loss circulation in 2m cavity, old workings on upper western reef at 176 feet level.			66-68m 5% + pyrite minor & copy 1/2%
				68-70m 10% + pyrite minor

MINERALISATION

From 20-30m Pyrite very fine to fine eutedra associated with traces (white quartz.

From 30-42m Pyrite and arsenopyrite often as coarse euhedra free (associated with white quartz. Coarse chips composed (F. euhedral pyrite and V.F. eutedral arsenopyrite, ma be intermixed aslo common.

From 42-70m Pyrite and arsenopyrite generally fine and very fir grained euhedra respectively, may be mixed rai individual medium to coarse euhedra.

329102

EPOCH MINING N.L.

Project: Mathinna | Co-ordinates: 00 10W | Az 270°MN | Date: 19-22/6/87

Hole No. PDH-6 | Depth 98m | Declin 60° | N DUNCAN

SAMPLE NO	INTERVAL	Au(ppm) (F.A.)		DESCRIPTION
6/1	0-3	0.4	From 0-26m	SHALE
2	3-4	0.3		Pale brown to brown weathered, weakly kaulinitic,
3	4-6	0.1		very fine grained with well developed fine
4	6-8	4.2		cleavage. Weak to strong FeO stained with minor
5	8-10	0.2	0.08	"gossanous" cuttings.
6	10-12	0.1		From 14-18m reddish in colour to very fine
7	12-14	0.2		disseminated FeO in shale.
8	14-16	0.1		From 18-26m increasing % of pale grey shale.
9	16-18	0.1	White Quartz	0-3m 25%
6/10	18-20	B		3-4m 90%
11	20-22	B	B	4-6m 15%
12	22-24	0.1		6-8m 10%
13	24-26	0.1		
14	26-28	B	From 26-34m	INTERBEDDED PALE GREY AND BLACK SHALES
15	28-30	B		Pale grey and black shales, very fine grained with
16	30-32	B		well developed closely spaced cleavage
17	32-24	B	White Quartz	28-30m, 40% + minor pyrite
18	34-36	0.1	0.05	30-34m, minor + minor pyrite
19	36-38	0.2	From 34-54m	SHALE
6/20	38-40	3.9	4.24	Pale green grey with black interbed at 44-46m
21	40-42	0.3		Very fine grained with well developed closely cleavage
22	42-44	0.3	White Quartz	34-36 25% + minor pyrite
23	44-46	0.3		36-40 15% + arsenopyrite & pyrite 1% total
24	46-48	0.3		40-42 minor and trace pyrite, arsenopyrite
25	48-50	0.3		42-44 10% + trace pyrite
26	50-52	0.2		44-46 30% + minor arsenopyrite and trace pyrite
27	52-54	0.2		46-52 minor + minor arsenopyrite and trace pyrite
28	54-56	0.1		52-54 trace + trace pyrite
29	56-58	0.3	From 54-72m	SHALE
6/30	58-60	0.3		Dark grey, vey fine grained with well developed close spaced cleavage. Increasing silica content becomi more slaty with depth.
31	60-62	0.1	B White	56-58m 10% + trace arsenopyrite and pyrite
32	62-64	0.2	Quartz	62-64m 5% + trace pyrite
33	64-66	0.1		64-66m 50% + minor pyrite and trace arsenopyrite
34	66-68	0.2		66-68m 17% + trace pyrite and arsenopyrite
35	68-70	0.3		68-70m 7% + minor pyrite and trace arsenopyrite
36	70-72	0.5		70-72m 30% + minor pyrite and trace arsenopyrite
37	72-74	0.2	From 72-98m	SLATE AND QUARTZITE
38	74-76	0.2		Interbedded grey slate and pale grey quartzite
39	76-78	0.2		Slate, very fine grained, quartzite fine grained
6/40	78-80	0.2	0.09	both with well developed closely spaced cleavage
41	80-82	0.6	White Quartz	72-74m 15% + minor pyrite
42	82-84	0.5		74-98m 5% + trace to minor pyrite
43	84-86	0.4		
44	86-88	0.5	From 86-88m	partial loss of circulation (to old working in
45	88-90	0.4		Upper Western Lode) later restored
46	90-92	0.5	B	
47	92-94	0.5	MINERALISATION. Through mineralised section of hole 28-98m	
48	94-96	0.4	pyrite is fine grained eutedral, arsenopyrite is very fine	
6/49	96-98	0.5	grained. Generally two sulphides separate occasionally mixed almc always associated with white quartz. Between 70-72m both pyrite a arsenopyrite present as coarse to medium euhedra	

329103

EPOCH MINING N.L.

Project: Mathinna | Co-ordinates: 25N 37.5W | Az 275°MN | Date: 23/6/87

Hole No. PDH-7 | Depth 76m | Declin 60° | N DUNCAN

SAMPLE NO	INTERVAL	Au(ppm) (F.A.)		DESCRIPTION
7/1	0-3	0.4	From 0-18m	SHALE
2	3-4	0.4		Pale brown to brown, very fine grained with well
3	4-6	0.6	0.11	developed closely spaced cleavage, weathered with
4	6-8	0.3		weak to moderate FeO staining
5	8-10	0.2	B From 8-18m	Very fine red FeO spotting of shales
6	10-12	0.4		Grey Shale increases with depth
7	12-14	0.6		minor "gossanous" cuttings
8	14-16	0.5	White Quartz	0-3m 30%
9	16-18	0.6	B with weak	3-4m 17%
7/10	18-20	0.5	FeO staining	4-6m 10%
11	20-22	0.4		12-18m 5%
12	22-24	0.7	B From 18-54m	
INTERBEDDED SHALES AND QUARTZITES				
13	24-26	0.6		Shale grey very fine grained, phyllitic with
14	26-28	0.4		crenulations at times, well developed closely
15	28-30	0.5		spaced cleavage/foliation. Shales appear more
16	30-32	0.5	0.03	silicous. Quartzite, grey faint traces of fine
17	32-34	0.6		grey texture, well cemented, minor white interstitial feldspar (?)
18	34-36	0.6	White Quartz	18-28m 5% with weak FeO staining
19	36-38	0.5	B	40-42m 5%
7/20	38-40	0.5		42-44m 10%
21	40-42	0.1		44-46m 35% + trace pyrite
22	42-44	B		46-48m 65% + trace pyrite 1/2% arsenopyrite
23	44-46	B	0.14	48-52m 60% + minor pyrite arsenopyrite
24	46-48	B		52-54m 20% + minor pyrite arsenopyrite
25	48-50	B	0.21	
26	50-52	0.1		
27	52-54	B		
28	54-56	0.1	B	
29	56-58	0.1		
7/30	58-60	0.1		
31	60-62	0.7	0.50	From 54-76m INTERBEDDED GREY AND BLAC SHALES
32	62-64	0.3		Both shales very fine grained with well developed
33	64-6	B	0.01	close spaced cleavage stronger developed in black
34	66-68	0.3		shales. Pale grey shale increasing with depth
35	68-70	0.3		
36	70-72	0.3	White Quartz	54-56m 5% + minor pyrite & arsenopyrite
37	72-74	0.5	B	56-58m minor + trace pyrite
38	74-76	B		58-60m 20% + minor pyrite & trace arsenopyrite
				60-64m 10% + pyrite 1/2-1% minor arsenopyrite
END HOLE				64-66m 35% + trace pyrite and arsenopyrite
				66-70m 5% + minor pyrite
				70-76m minor

MINERALISATION

Pyrite generally fine grained, euhedral, associated with white quar
Arsenopyrite generally fine grained associated with white quar
between 48-50m coarse euhedral arsenopyrite

329104

EPOCH MINING N.L.

Project: Mathinna | Co-ordinates: 27S 37.5E | Az 269°MN | Date: 23/6/87

Hole No. PDH-8 | Depth 62m | Declin 60° | N DUNCAN

SAMPLE NO	INTERVAL	Au(ppm) (F.A.)		DESCRIPTION
8/1	0-3	0.2	From 0-14m	SHALE
2	3-4	0.2		Karki phyllitic very fine grained with well
3	4-6	0.2		developed close spaced cleavage/foliation
4	6-8	0.3	B	From 0-4m pale brown weathered
5	8-10	0.2		
6	10-12	0.2		
7	12-14	0.3	From 14-48m	SHALE
8	14-16	0.3		Dark grey, phyllitic, very fine grained with very
9	16-18	0.3	B	well developed close spaced cleavage/foliation
8/10	18-20	0.5		
11	20-22	0.5		
12	22-24	0.5		
13	24-26	0.4		
14	26-28	0.5	B	
15	28-30	0.5		
16	30-32	0.6	White Quartz	16-18m 17%
17	32-34	0.5		28-30m 5% + true arsenopyrite (?)
18	34-36	0.5	B	30-32m 10% + trace pyrite
19	36-38	0.5		
8/20	38-40	0.5		Pyrite trace from 32-36m
21	40-42	0.6		
22	42-44	0.5		
23	44-46	0.4	B	
24	46-48	0.5	From 48-59	SHALE
25	48-50	0.6		Grey phyllitic, very fine grained with very well
26	50-52	0.5		developed close spread cleavage/foliation
27	52-54	0.5	White Quartz	48-50m 35% + minor pyrite & arsenopyrite
28	54-56	0.5		50-54m 15% + minor pyrite & arsenopyrite
29	56-58	0.6	B	54-60m 10% + trace to minor pyrite
8/30	58-60	B		
31	60-62	B	From 59-62m	BLACK SHALE
				Black very fine grained, well developed close spac cleavage. Very fine eutedra disseminated pyrite in soi cuttings.
			White Quartz	60-62m 30% + pyrite 1%

END. OLD WORKINGS ENCOUNTERED AT 62M. MAIN REEF NO 1 LEVEL AT 176 FEET

Water encountered at 25m at rate of 200 gallons/hour.

MINERALISATION

Pyrite as fine eutedra associated with white quartz, as fracture plane, joint plane coating, rarely mass arsenopyrite as very fine massive associated with white quartz.

329105

EPOCH MINING N.L.

Project: Mathinna | Co-ordinates: 30N,5E | Az 280°MN | Date: 25/6/87

Hole No. PDH-9 | Depth 65m | Declin 60° | N DUNCAN

SAMPLE NO	INTERVAL	Au(ppm) (F.A.)		DESCRIPTION
9/1	0-3	0.4	From 0.6m	SHALE
2	3-4	0.3		Pale brown to pale grey, very fine grained, finely
3	4-6	0.3	B	cleaved weathered and weakly FeO stained
4	6-8	0.3	White Quartz	0-4m 80%
5	8-10	0.2	weakly FeO stained	4-6m 5%
6	10-12	0.3	0.01	From 6-18m SHALE
7	12-14	0.1		Pale brown to brown becoming dark grey at bottom,
8	14-16	0.1		very fine grained, finely cleaved
9	16-18	0.2	0.01	From 14-16m minor pale grey and black quartzite
9/10	18-20	0.3	White Quartz	6-14m minor
11	20-22	0.3		14-16m 12%
12	22-24	0.3		16-18m 10%
13	24-26	0.7	0.27	From 18-22m BLACK SHALE
14	26-28	0.3		Black to dark grey shale, very fine grained, finely cleaved
15	28-30	5.4	White Quartz	18-20m 7%
16	30-32	0.7	3.25	20-22m minor + trace pyrite & arsenopyrite
17	32-34	0.8	From 22-32m	SHALE
18	34-36	0.3		Green-grey, very fine grained, finely cleaved
19	36-38	0.4	B Quartz	22-24m white minor grey 10%) + 1% sulphides
9/20	38-40	0.2		24-26m W 30% D.G. 10%)dominantly arsenopyrite
21	40-42	0.3		26-32m W 10% D.G. 5%)minor pyrite increasing trace galena(?) Pyrite generally fine, arsenopyrite ve fine antedral to euhedral
22	42-44	0.2	0.05	From 32-58m SHALE
23	44-46	0.2		Grey very fine grained, finally cleaved and
24	46-48	0.2		becoming more silicous towards end interval
25	48-50	0.2	B Quartz	32-34 white 10% & dark grey minor + 1-2% sulphides
26	50-52	0.3		34-36 W 5% - + minor pyrite
27	52-54	0.2		36-38 W minor - + minor pyrite
28	54-56	0.3		40-44 W 10% + 1/2% pyrite
29	56-58	0.1	B	52-56 W 12% + minor pyrite
9/30	58-60	0.2		56-58 W minor + 1/2-1% pyrite

MINERALISATION

From 32-34 2% sulphides, Pyrite 1% arsenopyrite 1% ass with white quartz
34-38 Pyrite minor, massive ass with white quartz
40-44 Pyrite 1/2%, massive, ass with white quartz
44-48 Pyrite, minor, disseminated in shale
48-54 Pyrite, trace ass with white quartz
54-56 Pyrite minor ass with white quartz
56-58 Pyrite, 1/2-1% disseminated in shale
Pyrite ass with quartz fine, when disseminated very fine euhedra

From 58-62m BLACK SHALE
Black very fine grained, finely cleaved with very fine

31	60-62	0.2	B	disseminated pyrite euhedra
32	62-64	0.2	White Quartz	58-60m, minor + pyrite 1-2%
33	64-65	0.2		60-62m 10% + pyrite 1-2%

END HOLE OLD WORKINGS ENCOUNTERED FROM 62-65M SHALE
Pale grey very fine grained, finely cleaved
White quartz 62-65m, 20% + pyrite 1-2%

Water encountered at 30m estimated 30/50 gallons/hour
Wet sampling below 30m with bias to coarse chips

329106

EPOCH MINING N.L.

Project: Mathinna Co-ordinates: 20S 6W Az 255°MN Date: 26-27/6/87

Hole No. PDH-10 Depth 80m Declin 60° N DUNCAN

SAMPLE NO		INTERVAL (F.A.)	Au(ppm)	SULPHIDES QUARTZ		WHITE
10/1	0-3	1.2		20%		From 0-16 SHALE
2	3-4	2.4	0.12	10%		Pale brown to brown and red, moderately to
3	4-6	0.8		75%		strongly weathered, thinly cleaved with minor
4	6-8	0.3	0.08	85%		"gossanous" cuttings
5	8-10	0.2		75%		
6	10-12	0.2		70%		
7	12-14	0.2		10%		
8	14-16	1.7	1.40	80%		
9	16-18	0.2		35%		From 16-22 SHALE
10/10	18-20	0.2		50%		Dark grey, weathered in part with moderate FeO
11	20-22	0.3		10%	trace py	staining
12	22-24	B		-	trace py	very fine grained, thinly cleaved
13	24-26	B		5%	1% py	
14	26-28	0.2		15%	1/2-1% py	From 16-22 SHALE
15	28-30	B		7%	trace py	Pale greenish-grey, fine grained, finely cleaved
16	30-32	B	0.06	60%	1/2% py	
17	32-34	B		10%	trace py	Appears more silicous with thin highly silicous
18	34-36	0.3		minor	trace py	bands carrying up to 5-7% fine grained
19	36-38	0.4		10%	1/2% py	disseminated pyrite
10/20	38-40	0.4	0.18	5%	trace py	
21	40-42	0.3		20%	1% py aspy	MINERALISATION is associated with white quartz
22	42-44	0.3		-	1/2% py aspy	either as fine eutedral disseminations or as
23	44-46	1.0		50%	1/2% py aspy	thin massive veinlets
24	46-48	0.4	0.97	10%	trace py	
25	48-50	1.2		60%	1% aspy	
26	50-52	0.4		10%	minor py	From 46-54m SHALE
27	52-54	0.9		70%	1% py aspy	Pale greenish-grey, fine grained less
28	54-56	0.5		70%	2-3% aspy py	silicous and more shaly with thin cleavage
29	56-58	0.3		35%	1/2% py aspy	
10/30	58-60	B	0.07	10%	trace py	MINERALISATION As above
31	60-62	0.3		30%	trace py	From 54-62 INTERBEDDED QUARTZITES AN SHALES
32	62-64	0.4		12%	trace py	
33	64-66	0.3		10%	trace py	Interbedded dark grey to grey quartzites
34	66-68	0.4		10%	minor py aspy	and dark grey shale, very fine grained,
35	68-70	0.3	0.01	25%	minor py aspy	shales finely cleaved
36	70-72	0.4		minor	minor py aspy	From 62-72m SHALE
37	72-74	0.3		minor	trace py	Pale grey, very fine grained, silicous
38	74-76	0.3		minor	trace py	From 72-78m INTERBEDDED QUARTZITES AN SHALE
39	76-78	0.4		minor	trace py	
10/40	78-80	0.3	0.14	minor	trace py	interbedded grey quartzite and dark grey silico shale. Quartzite carries very fine grained disseminated euhedral pyrite

END HOLE

From 48-80m SHALE
Pale grey, very fine grained, thinly cleaved.

329107

EPOCH MINING N.L.

105S 50E

Project: Mathinna | Co-ordinates: | Az 270°MN | Date: 26-27/6/87

Hole No. PDH-11 | Depth 80m | Declin 60° | N DUNCAN

SAMPLE NO		INTERVAL (F.A.)	Au(ppm)		DESCRIPTION
11/1	0-3	B		From 0-20m	SHALE
2	3-4	B			Pale brown weathered shale, fine grained with
3	4-6	B	B		moderately well developed foliation/cleavage
4	6-8	B			
5	8-10	B			
6	10-12	B			
7	12-14	B	B		
8	14-16	B			
9	16-18	B			
11/10	18-20	B		From 20-46m	SHALE
11	20-22	B			Grey, fine grained with moderately well developed
12	22-24	B	0.07		foliation/cleavage
13	24-26	B		From 24-30m	15% of cuttings are very pale brown quartzite
14	26-28	B			
15	28-30	B	B	White Quartz	38-40m 10%
16	30-32	B			40-42m 15%
17	32-34	B			42-44m 17%
18	34-36	B			44-46m 17% + minor pyrite
19	36-38	B			
11/20	38-40	B	B		
21	40-42	B			
22	42-44	B			
23	44-46	0.2		From 46-54m	INTERBEDDED BLACK SHALES
24	46-48	B			Interbedded black and dark grey shales, the black
25	48-50	B	0.05		very fine grained and dark grey fine grained with
26	50-52	B			thin foliation/cleavage
27	52-54	B			Minor pyrite between 46-54m as very fine
28	54-56	B			disseminated euhedra occuring in both shales but
29	56-58	B			greatly more common in black shales.
30	58-60	B	B		Minor veinlets of massive pyrite.

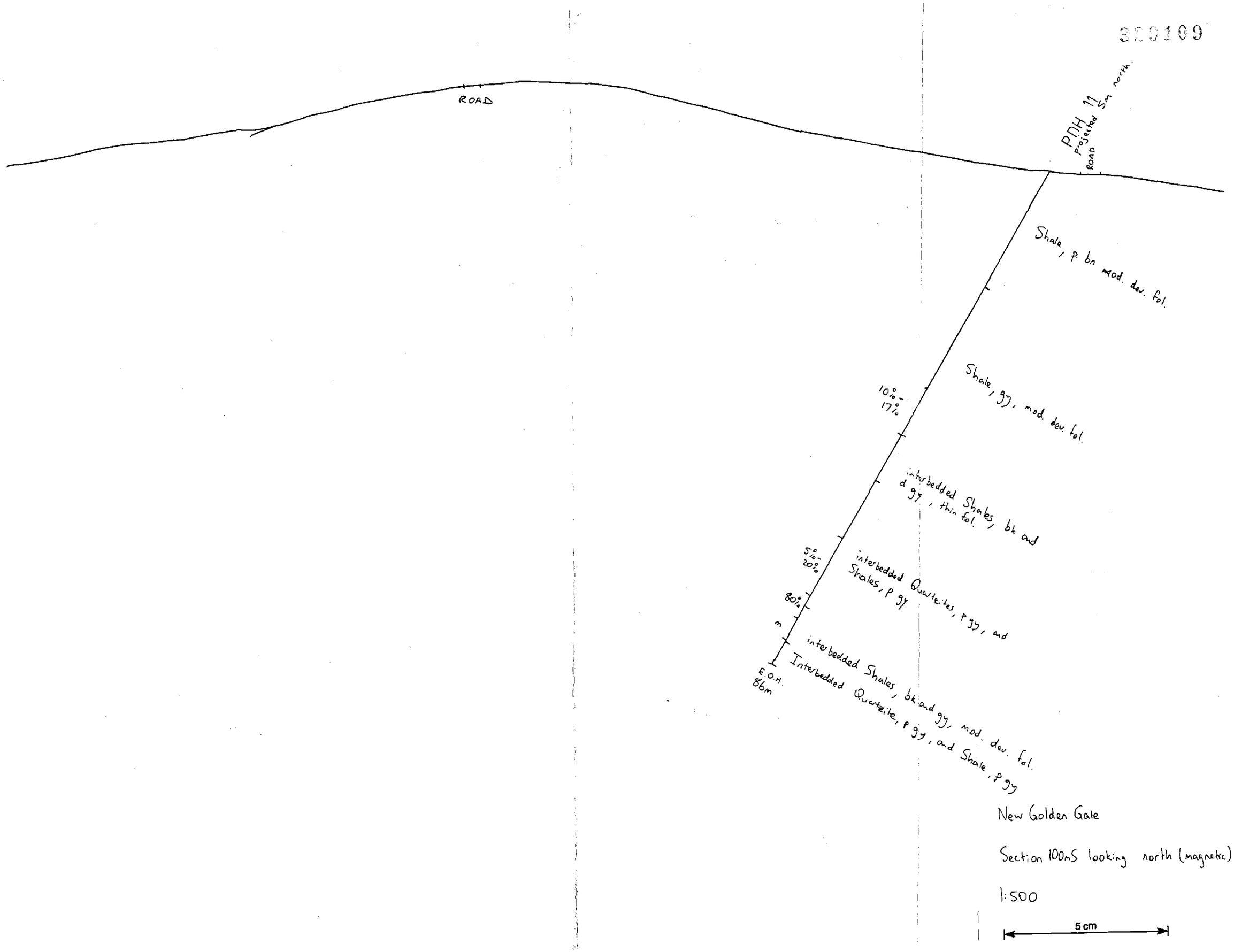
PDH - 11

SAMPLES	INTERVAL	Au ppm (FA)		DESCRIPTION
11/31	60-62	B		FROM 54-76m INTERBEDDED QUARTZITES AND SHALES
32	62-64	B		Interbedded pale grey quartzite and pale grey, very
33	64-66	B		fine grained shales.
34	66-68	B	B	White Quartz 64-66m 20%
35	68-70	B		66-68m 5%
36	70-72	B		68-70m 10%
37	72-74	B	B	70-72m 5%
38	74-76	B		72-74m 10%. + trace cpy
39	76-78	B		74-76m 85%. + trace cpy
11/40	78-80	B	B	Trace Pyrite at 54-56m
41	80-82	B		FROM 76-82 INTERBEDDED SHALES
42	82-84	B	B	Interbedded black and grey shales, the black very
43	84-86	B	B	fine grained, the grey fine grained with moderately we developed foliation/cleavage.

END OF HOLE

White Quartz 76-78m, 70% + trace cpy, py.
78-82m, minor
Pyrite 78-80m, 1/2%
80-82m, 2%
occurs as very fine disseminated euhedral in black shales (1 20%+ in black shales) and occasional veinlet.

FROM 82-86m INTERBEDDED QUARTZITE AND SHALE
Interbedded pale grey quartzite and pale grey shale, fir grained:
Minor Pyrite 82-84m.

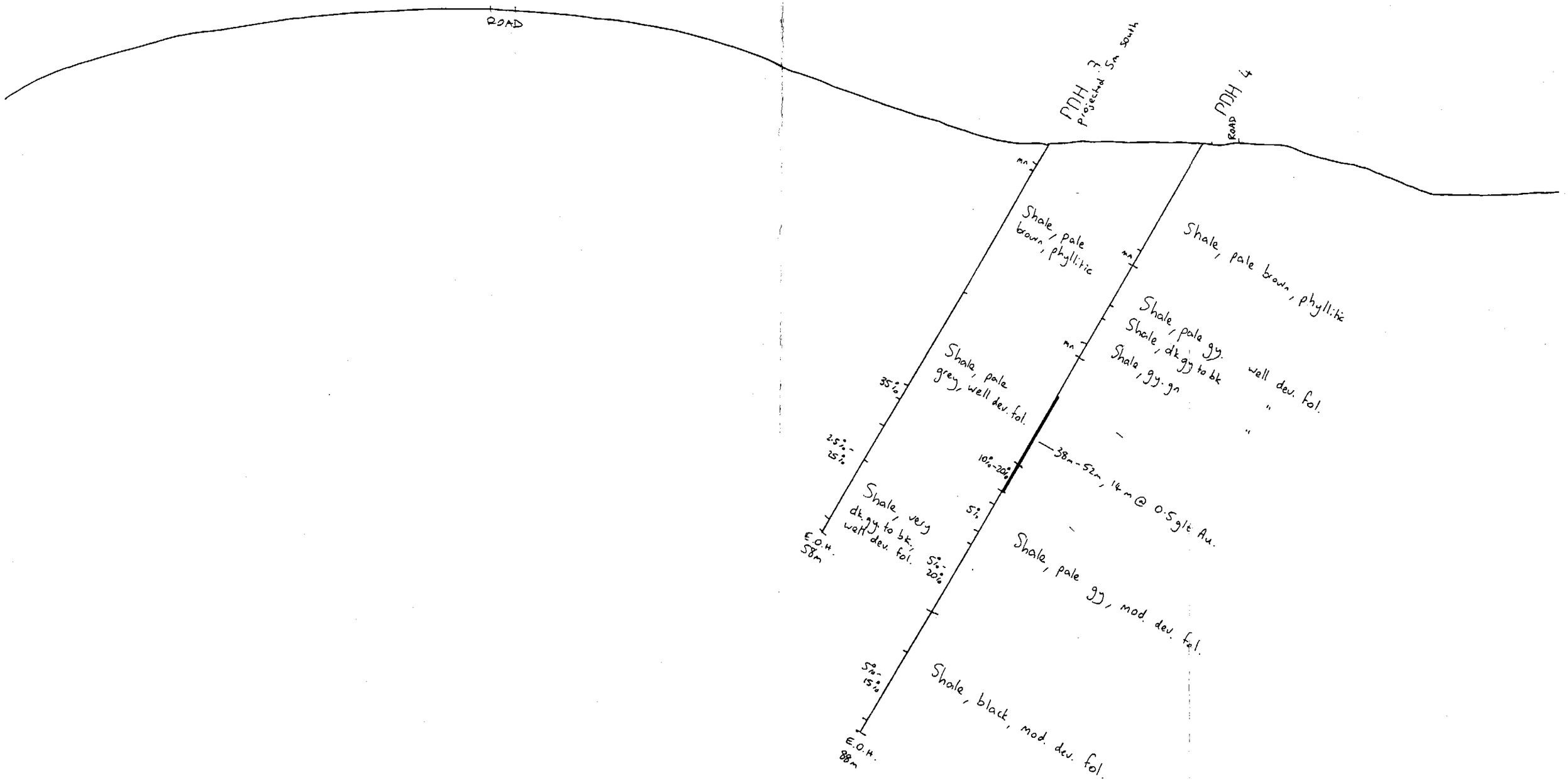


New Golden Gate

Section 100mS looking north (magnetic)

1:500

5 cm



New Golden Gate

Section 75mS looking north (magnetic

1:500

5 cm

ROAD

PDH 5

PDH 10 projected 5m south.

ROAD

PDH 8

ADIT LEVEL

LEVEL 1 116'

LEVEL 2 175'

UPPER WESTERN REEF

CENTRAL REEF

LOWES REEF

MAIN REEF

Shales bn to p gy, dev fol

10m-22m, 12m @ 0.5g/t Au

Shales, p bn, thinly clvd

10m-4m, 4m @ 0.5g/t Au

10m-6m, 6m @ 1.08g/t Au

14m-16m, 2m @ 1.55g/t Au

Shales, dk gy, thinly cleaved

Shales lt gy, mod. dev fol.

32m-38m, 6m @ 1.4g/t Au

Shales, p gn gy, finely clvd

40m-48m, 8m @ 10.7g/t Au

44m-50m, 6m @ 0.96g/t Au

Shales, p gn gy, thin clv

interbedded

Quartzites, dgy to gy, finely clvd

and Shales, dk gy, finely clvd

52m-56m, 4m @ 0.7g/t Au

56m-58m, 2m @ 0.9g/t Au

58m-64m, 6m @ 1.0g/t Au

Shales bk, well dev fol.

68m-70m, 2m @ 4.7g/t Au

E.O.H. 70m

Shales, p gy

interbedded Quartzites, gy, and Shales, d gy

E.O.H.

Shales, p gy, thinly clvd.

old workings, upper Western Reef at 176' level.

18m-58m, 40m @ 0.51g/t Au.

Shale, dk gy, phyllitic

Shales, gy, phyllitic

Shales, bk, well dev clv

E.O.H. 62m

Shales, khaki, phyllitic

old workings Main Reef at No1 level 176'

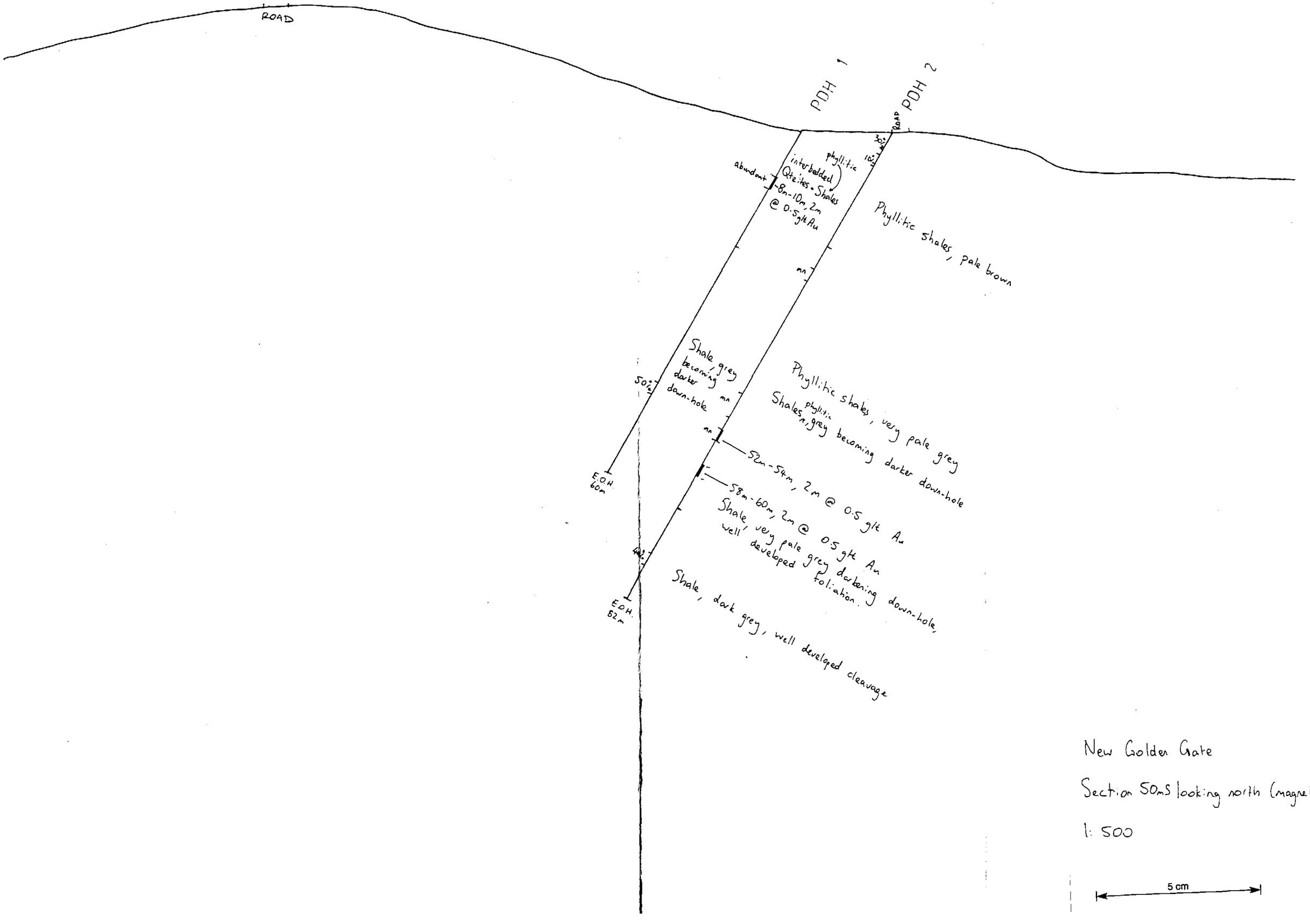
New Golden Gate

Section 25mS looking north (magnetic)

1:500

5 cm

329112

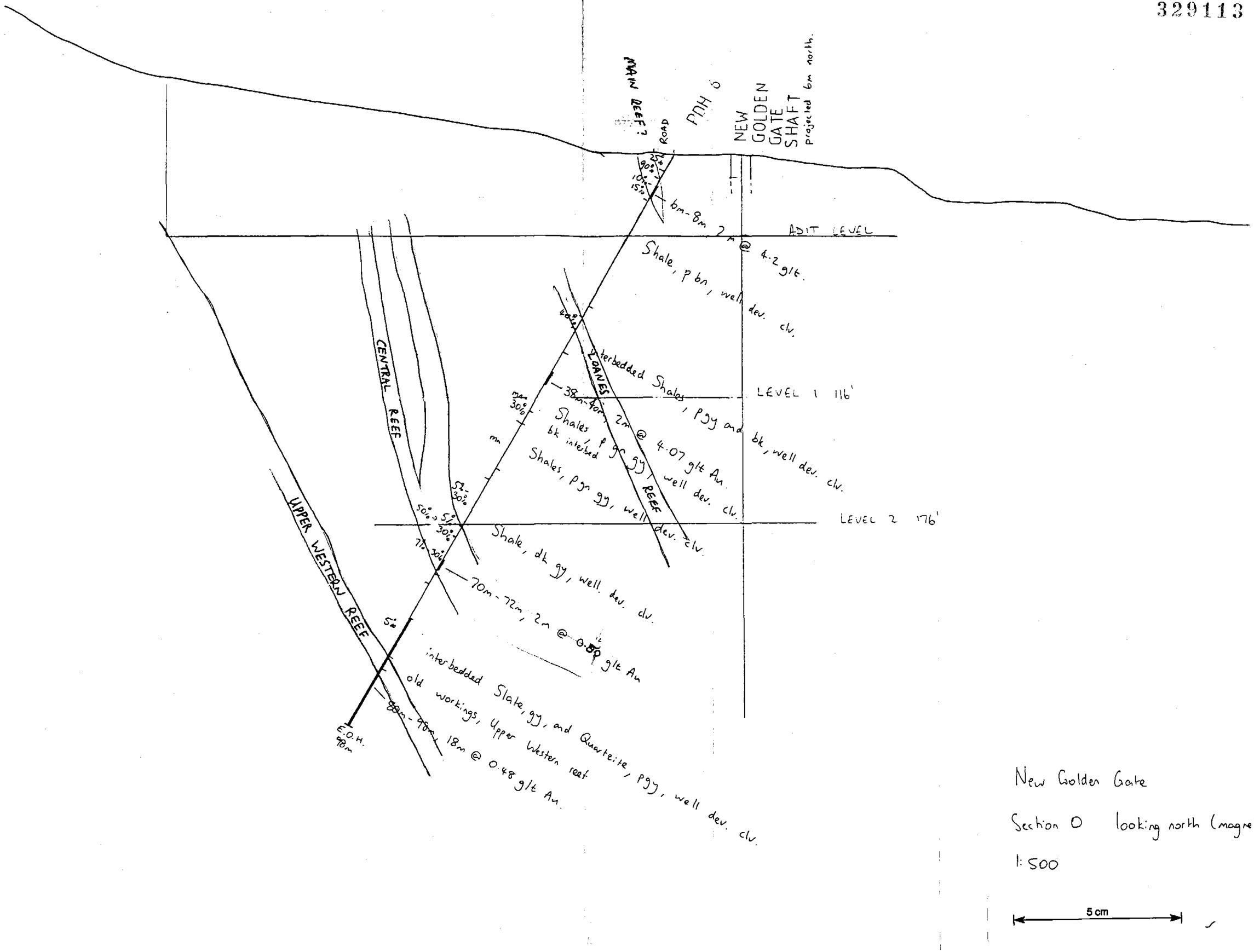


New Golden Gate

Section 50mS looking north (magnetic)

1: 500

5 cm

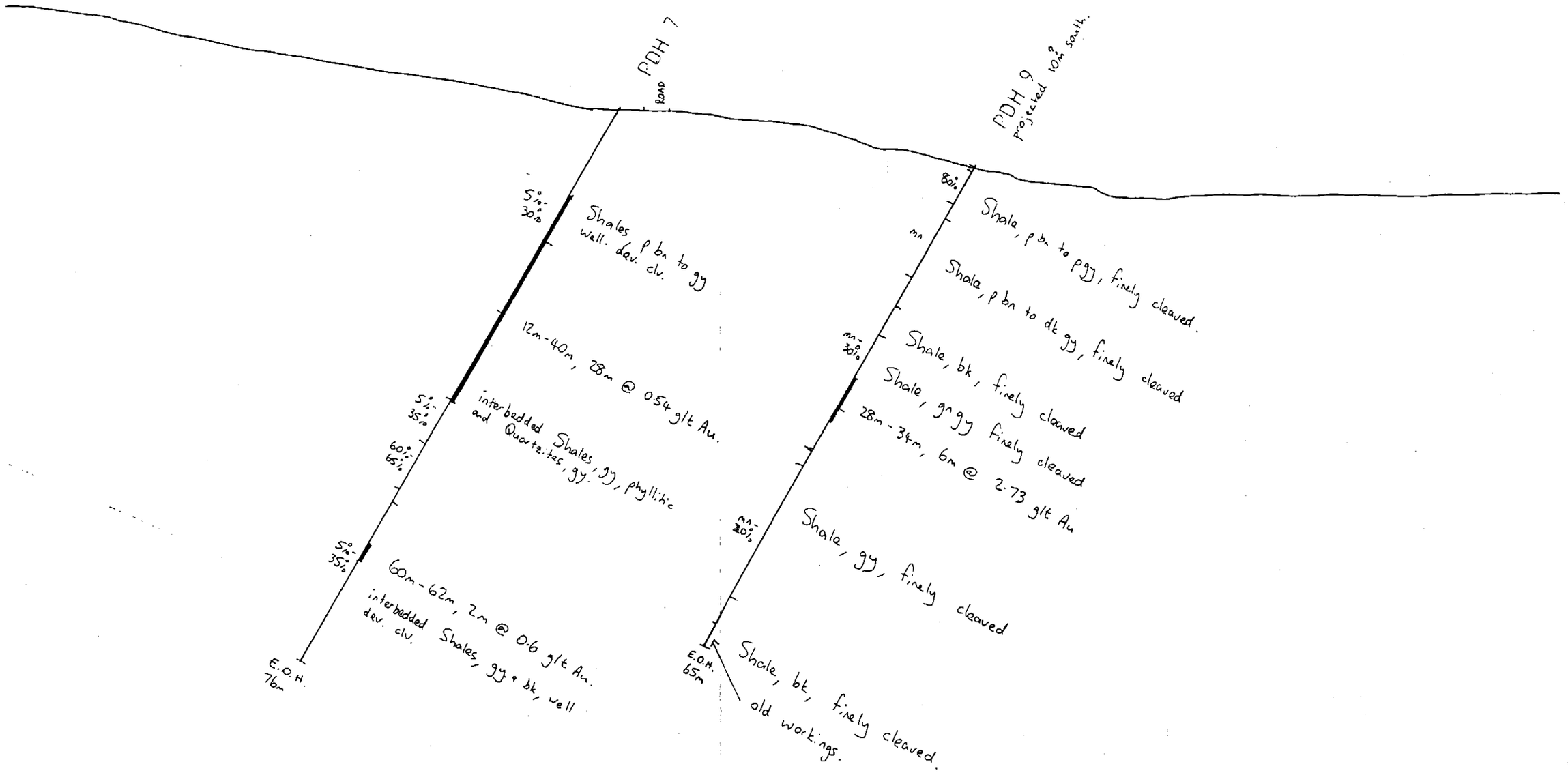


New Golden Gate

Section O looking north (magnetic)

1:500

5 cm



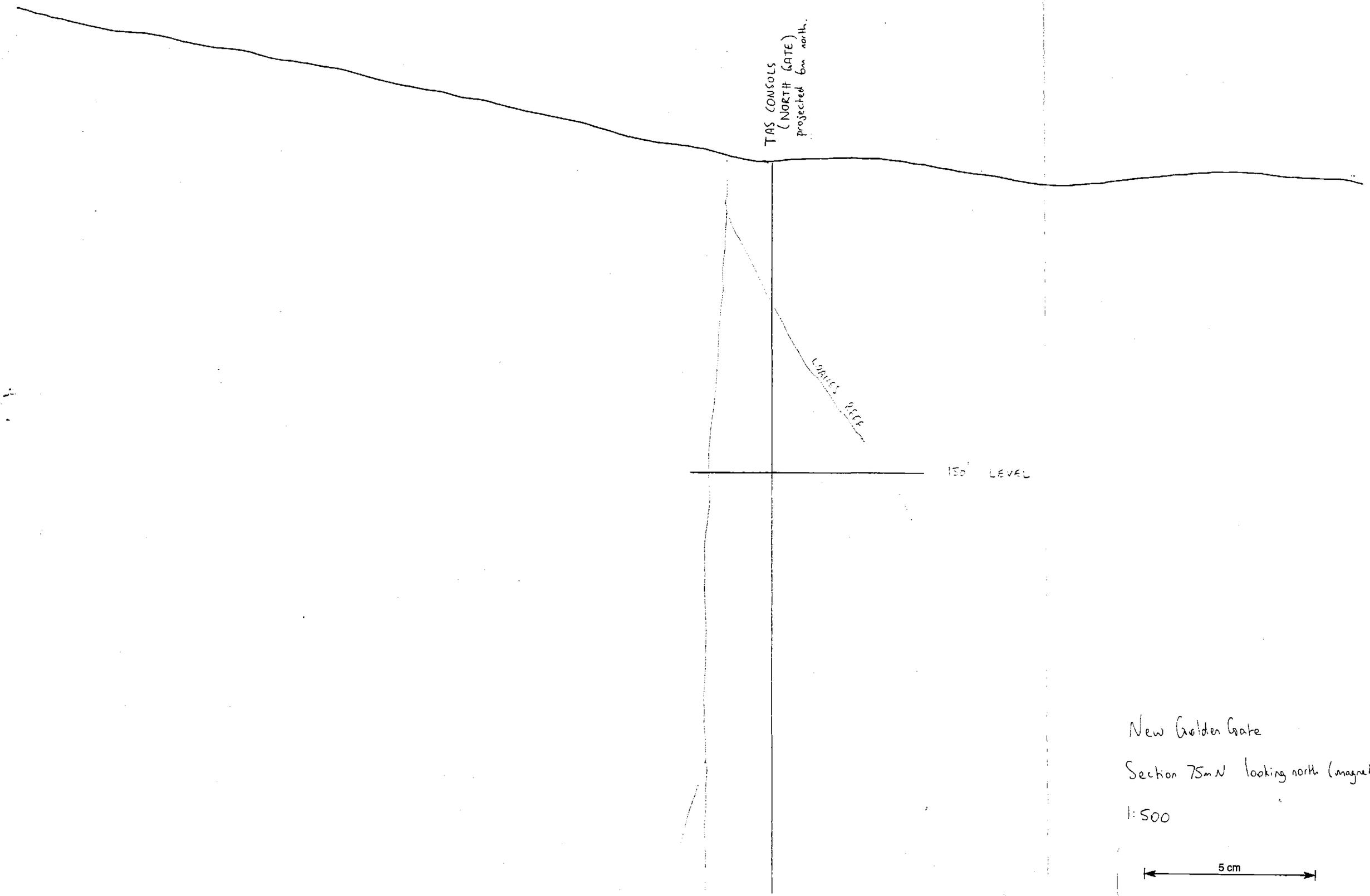
New Golden Gate

Section 25mN looking north (magne

1:500

5 cm

329115



New Golden Gate

Section 75m N looking north (magnetics)

1:500

5 cm

125S 100S 75S 50S 25S 00 25N 50N 75N 100N 125N 150N

75W 50W 25W 00 25E 50E 75E

N.W.

MULLOCK SHAFT

Qtz

SHAFT

OLD MINE ROAD

Old Shaft?

SITE OF OLD BATTERY

MPH-7

shallow (8m)

MPH-5

shallow shaft 45° slope

shallow 8m 80-85°W

MULLOCK SHAFT to 60ft?

MPH-1

MPH-10

MPH-6

GOLDEN GATE SHAFT

MPH-3 o/c siltstone with linear white qtz vein parallel to cleavage

MPH-2

MPH-4

MPH-9

MPH

TASMANIAN CONSULS SHAFT

TAILINGS

Track

Brick well

MPH-8

SITE OF OLD BATTERY

Brick Butres

MPH-11

OLD CYANIDE VATS

MULLOCK HEAP

LEGEND

- Bedding strike & dip.
- Cleavage attitude.
- Bedding & cleavage coincidental.
- Shearing attitude.
- Shearing.
- Jointing attitude.
- Jointing vertical.
- Lineation attitude.
- Small scale plunging anticline.

N.B. Grid established by tape & compass without slope correction.

329116

5 cm

EPOCH MINING N.L.

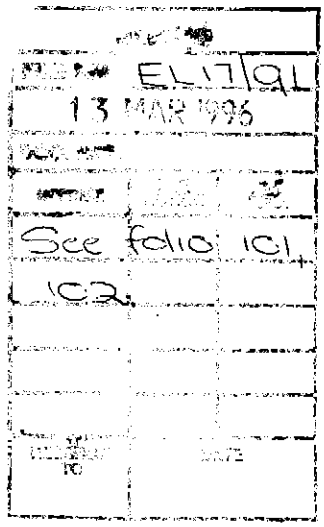
Mathinna, Tasmania.
Geology & Drill Holes.
Scale - 1 : 500.
Geologist - N. Duncan.

Plate Report June '87

RESOLUTE SAMANTHA LIMITED

ANNUAL REPORT
1995

VOLUME 2|5



EL 17/91
"MATHINNA"

Grant MacDonald
February 1996
GM609:da

APPENDIX C

Stream Bleg Sample Record Sheets and Assay Results

RESOLUTE RESOURCES LIMITED

EL 1749 & 22/92

Project Name: MATHINNA/MANGANA Prospect Name: MATHINNA Tenement No.:

Sampler: Grant Sample Type: Rock - Blegs Sample Submission No.:

Note: New Area - New Page & New Sample Type - New Page 320119 Date: / /

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
379501	B		BLEG K9402	5403240	575600
2	—		No sample.		
3	B		BLEG IC 9402	5403180	575570
4	FT		RK ~~BLEG~~ buck qtz w lmc vugs. K9402C		
5	FT		Rock buck qtz w. lmc vugs IC9402C		
6	FT		Rock buck qtz w. lmc vugs. NO SAMPLE SENT		
7	B		BLEG K9402	5403520	576220
8	FT		Rock ~~BLEG~~ buck qtz w. lmc vugs. K9402C	5403520	576220
9	B		BLEG K9402	5405020	575620
379510	B		BLEG "	5405060	575640
1	B		BLEG "	5405280	575520
2	B		BLEG "	5407500	575440
3	B		BLEG "	5405310	575080
4	FT	2.28 3300	Rock bxd lode rock - Old Boys	↓	K9407A
5	FT	0.31 840	lmc sd wall rock bucky Old Boys		
6	FT	0.11 105	Rock bxd " lode rock Old Boys "		
7	FT	0.02 55	RK " " "		
8	FT	1.11 1900	RK " " "		
9	FT	0.12 150	RK " " "		
379520	FT	0.03 120	RK ~~buck qtz in sed sst 30° asp Vol Dump~~		
1	~~FT~~ MC	0.18 290	RK buck qtz in sed sst 30° asp Vol Con. Dump		
2	~~FT~~ MC	0.35 45	RK " " "		
3	~~FT~~ MC	478.0 3.8%	RK blue qtz stringers 80° asp laminated "		
4	~~FT~~ MC	211.1 1.69%	RK "		
5	~~FT~~ MC	7.19 340	RK bucky wt qtz w oc fine asp vnt "		
6	~~FT~~ MC	1.24 310	RK sl stockwork fine qtz in dk sh "		
7	~~FT~~ MC	0.72 170	RK " " "		
8	~~FT~~ MC	0.33 130	RK f.g. (cl.) sed carb sst sl		
9	~~FT~~ MC	0.29 75	RK " " "		
379530	~~FT~~ MC	0.62 90	RK " " "		

MinLab

329120

MINCULTURE LABORATORIES PTY LTD ACN 008 960 174 TRUSTEE FOR THE MINLAB UNIT TRUST TRADING AS MINLAB

18A Denninup Way
MALAGA WA 6062
Tel: (09) 249 5277
Fax: (09) 249 5323

257A Forrest Street
KALGOORLIE WA 6430
Tel: (090) 21 5664
Fax: (090) 91 2200

Lot 484 Criddle St
MT MAGNET WA 6638
Tel: (099) 634 532
Fax: (099) 634 531

ANALYTICAL REPORT

Reference No: KG51073

Date: 29 NOV 94

Samples Received: 17 NOV 94
Order Number : ~~N/A~~ K94C2
Project Number : TASSIE
Samples in Batch: 8

AREA COVERED : MATHINNA

SAMPLE TYPE : BLEGS.

THIS REPORT HAS BEEN PREPARED FOR

RESOLUTE RESOURCES LIMITED

AND SHOULD BE READ IN CONJUNCTION WITH THE FINAL PAGE

Authorised by: A Ferguson
(A.J. Ferguson)

ATTN: B SHAW
RESOLUTE RESOURCES LTD
MANGANA RD
FINGAL TAS 7214

329121

Reference No: KG51073 **ATTN: B SHAW** Page: 1

	Au ppb
Detn Limit	1
379509	12
379510	9
379511	14
379512	1
379513	280

MATHINNA

****

Au,
Technique - Fire Assay on a 50 gram charge followed by solvent extraction

END OF REPORT

MinLab

329123

MINCULTURE LABORATORIES PTY LTD ACN 008 960 174 TRUSTEE FOR THE MINLAB UNIT TRUST TRADING AS MINLAB

18A Denninup Way
MALAGA WA 6062
Tel: (09) 249 5277
Fax: (09) 249 5323

257A Forrest Street
KALGOORLIE WA 6430
Tel: (090) 21 5664
Fax: (090) 91 2200

Lot 484 Criddle St
MT MAGNET WA 6638
Tel: (099) 634 532
Fax: (099) 634 531

ANALYTICAL REPORT

Reference No: P52006

Date: 17 NOV 94

Samples Received: 15 NOV 94
Order Number : N/A K094028
Project Number : N/A
Samples in Batch: 8

AREA COVERED : MATHINNA

SAMPLE TYPE : BLEGS

THIS REPORT HAS BEEN PREPARED FOR

RESOLUTE RESOURCES LTD

AND SHOULD BE READ IN CONJUNCTION WITH THE FINAL PAGE

Authorised by: R Ferguson
(A.J. Ferguson)

ATTN: B SHAW
RESOLUTE RESOURCES LTD
MANGANA RD
FINGAL TAS 7214

329124

Reference No: P52006 **ATTN: B SHAW** Page: 1

	As ppm	Cu ppm	Pb ppm	Zn ppm
Detn Limit	10	5	5	5
				MATHINNA
379509	<10	5	15	35
379510	20	10	30	60
379511	20	10	20	60
379512	<10	10	20	55
379513	80	15	20	85

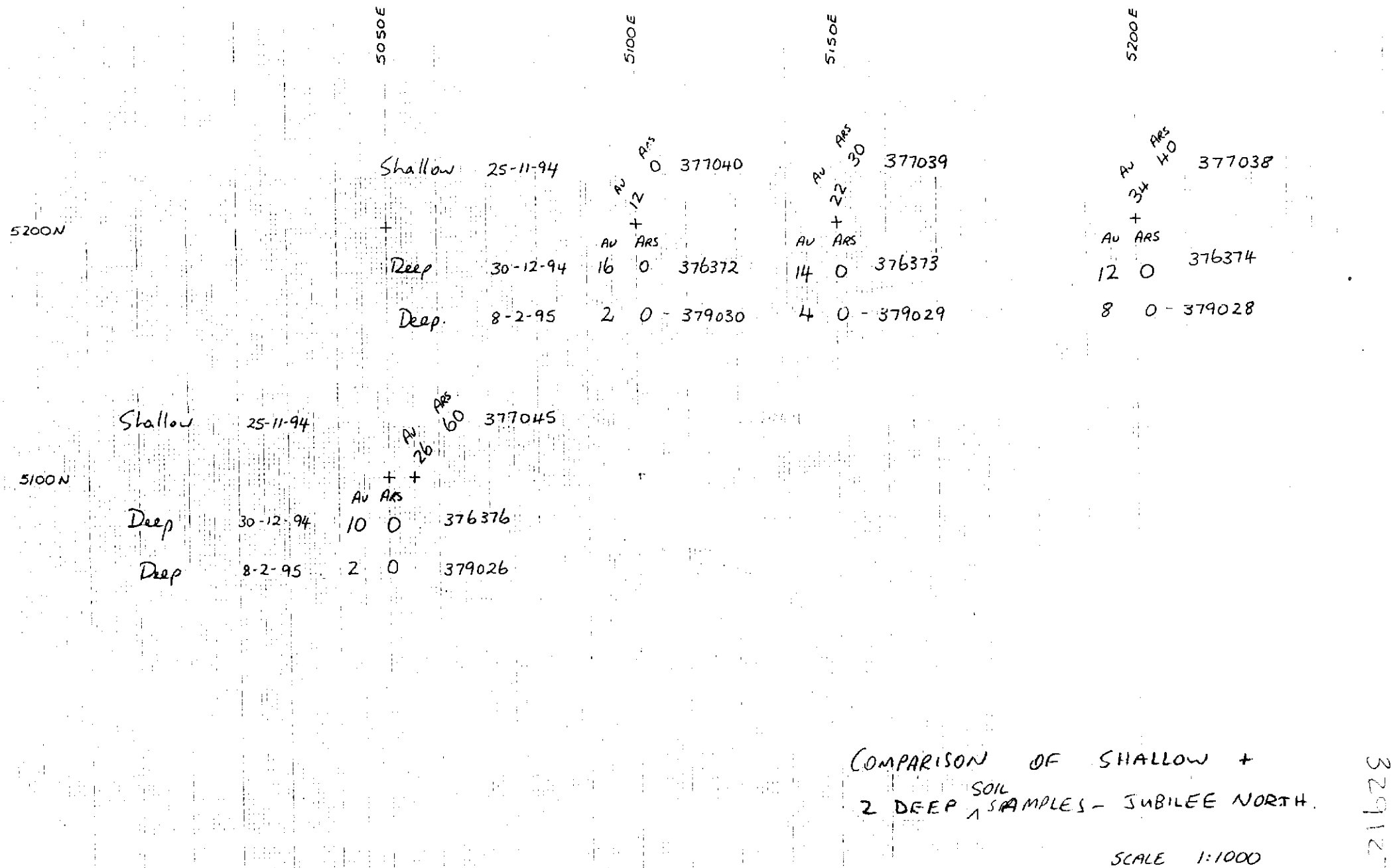
****

As, Cu, Pb, Zn,
Technique - AAS

END OF REPORT

APPENDIX D

Soil Sample Results Record Sheets and Assay Results


5050E
5100E
5150E
5200E
5200N
5100N
Shallow 25-11-94
Deep 30-12-94
Deep 8-2-95
Shallow 25-11-94
Deep 30-12-94
Deep 8-2-95
Au ARS
+
377040
377039
377038
376372
376373
376374
379030
379029
379028
377045
376376
379026
COMPARISON OF SHALLOW + 2 DEEP SOIL SAMPLES - JUBILEE NORTH.
SCALE 1:1000

32912

329128

RESOLUTE RESOURCES LIMITED

Project Name: TASMANIA Prospect Name: MATTHINNA Tenement No.: 17/91

Sampler: TIM + JAMES Sample Type: Subsurface soil Sample Submission No.: K7940-2A

Note: New Area - New Page & New Sample Type - New Page Date: 7/11/94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
375001				7400	3200
2				7400	3150
3				7500	3200
4				7500	3150
5				7400	3150
6				7400	3200
7				7300	3100
8				7300	3150
9				7300	3200
375010			Sample 5m E of pin	7200	3000
1				7200	3050
2				7200	3100
3				7200	3150
4				7200	3200
5				7100	2950
6				7100	3000
7			Sample downhill from shaft	7100	3050
8			Sample 5m N (next to shaft)	7100	3100
9				7100	3150
375020				7100	3200
1				7000	3000
2				7000	3050
3				7000	3100
4				7000	3150
5				7000	3200
6				6900	3000
7				6900	3050
8				6900	3100
9				6900	3150
375030				6900	3200

Assays Done 23.11.94.

323129

RESOLUTE RESOURCES LIMITED

Project Name: TASMANIA Prospect Name: MATHINNA Tenement No.: 17/91

Sampler: JAMES + TIM Sample Type: SUBSURFACE SOIL Sample Submission No.: K7404

Note: New Area - New Page & New Sample Type - New Page Date: 8 / 11 / 94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
375031			SAMPLE TAKEN 5M SOUTH	6800	2950 ~~3100~~
2				6800	3000
3				6800	3050
4				6800	3100
5				6800	3150
6				6800	3200
7				6700	2850
8				6700	2900
9				6700	2950
375040				6700	3000
1				6700	3050
2				6700	3100
3				6700	3150
4				6700	3200
5				6600	2800
6				6600	2850
7				6600	2900
8				6600	2950
9				6600	3000
375050				6600	3050
1				6600	3100
2				6600	3150
3				6600	3200
4				6500	2800
5			CREEK BED EDGE	6500	2850
6			ON DRY CREEK	6500	2900
7				6500	2950
8				6500	3000
9				6500	3050
375060				6500	3100

K7404 says
Mark
23.11.94

RESOLUTE RESOURCES LIMITED

329130

Project Name: TASMANIA Prospect Name: MATHINNA Tenement No.: 17/91

Sampler: JAMES + TIM Sample Type: SUBSURFACE SOIL Sample Submission No.: K7940ZA

Note: New Area - New Page & New Sample Type - New Page Date: 8 / 11 / '94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
375061				6500	3150
2				6500	3200
3				6400	2600
4				6400	2650
5				6400	2700
6				6400	2750
7				6400	2800
8				6400	2850
9				6400	2900
375070				6400	2950
1				6400	3000
2				6400	3050
3				6400	3100
4				6400	3150
5				6400	3200
6			⁂ SAMPLE 4m EAST NEXT TO OLD TRACK	6300	2600
7				6300	2650
8				6300	2700
9				6300	2750
375080				6300	2800
1				6300	2850
2				6300	2900
3				6300	2950
4				6300	3000
5				6300	3050
6				6300	3100
7				6300	3150
8				6300	3200
9				6200	2550
375090				6200	2600

Assays Rec'd 23.11.94

RESOLUTE RESOURCES LIMITED

329131

Project Name: TASMANIA Prospect Name: MATHINNA Tenement No.: 17/91

Sampler: JAMES + TIM Sample Type: SUBSURFACE SOIL Sample Submission No.: K7940ZA

Note: New Area - New Page & New Sample Type - New Page Date: 9 / 11 / '94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
375091				6200	2650
2				6200	2700
3				6200	2750
4				6200	2800
5				6200	2850
6				6200	2900
7				6200	2950
8				6200	3000
9				6200	3050
375100				6200	3100
1				6200	3150
2				6200	3200
3				6100	3200
4				6100	3150
5				6100	3100
6				6100	3050
7				6100	3000
8				6100	2950
9				6100	2900
375110				6100	2850
1				6100	2800
2				6100	2750
3				6100	2700
4				6100	2650
5				6100	2600
6				6000	3200
7				6000	3150
8				6000	3100
9				6000	3050
375120				6000	3000

Assay Done 23.11.94

Sent 10/11/94

Assay Done 23.11.94

Done 1/12/94

RESOLUTE RESOURCES LIMITED 320132

Project Name: Tasmania Prospect Name: Mathinna Tenement No.: 17/91

Sampler: Tim + Adrian Sample Type: Sub-surface soil Sample Submission No.:

Note: New Area - New Page & New Sample Type - New Page Date: 12 / 11 / 94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
375181				5500	2900
2				5500	2850
3				5500	2800
4				7800	3250
5				7800	3300
6				7800	3350
7				7800	3400
8				7700	3200
9				7700	3250
375190				7700	3300
1				7700	3350
2				7700	3400
3			Sample taken 5m north	7700	3450
4			~~Sample 5m South~~	7600	3250
5			Sample taken 5m South	7600	3300
6				7600	3450
7				7600	3450
8				7600	3500
9				7600	3550
375200				7600	3600
1				7500	3650
2			Sample taken 5m South	7500	3250
3			Sample taken 5m South	7500	3300
4			Sample 3.5m SW	7500	3350
5				7500	3450
6			6M EAST (ROAD)	7500	3500
7			5	7500	3550
8			5M NORTH	7500	3600
9			(6M WEST (BETWEEN WORKINGS)	7400	3250
375210				7400	3300

RESOLUTE RESOURCES LIMITED

329133

Project Name: TASMANIA Prospect Name: MATHINNA Tenement No.: 17/91

Sampler: NIGEL + MIKE Sample Type: SUBSURFACE SOIL Sample Submission No.:

Note: New Area - New Page & New Sample Type - New Page Date: 13 / 11 /94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
375211			8M SOUTH (LARGE SHAFT ADJACENT)	~~7400~~ ~~7100~~	~~3350~~ ~~4300~~
2				7300	3250
3				"	3300
4				"	3350
5				7200	~~3250~~ ~~3550~~
6				"	~~3300~~ ~~3250~~
7			NEAR COSTEAN	7100	3250
8				"	3300
9				7000	3250
375220				6900	3250
1				"	3300
2				6800	3250
3				"	3300
4				"	3350
5				"	3400
6				"	3450
7			5M EAST (COSTEAN)	"	3500
8				"	3550
9				"	3600
375230			8M SOUTH (OLD WORKINGS)	"	3650
1			4M SOUTH	"	3700
2				6700	3250
3				"	3300
4				"	3350
5				"	3400
6			3M WEST (ROAD)	"	3450
7				"	3500
8				"	3550
9				"	3600
375240				"	3650

RESOLUTE RESOURCES LIMITED

329134

Project Name: TASMANIA Prospect Name: MATHINNA Tenement No.: 17/91

Sampler: NIGEL & ADRIAN Sample Type: SUBSURFACE SOILS Sample Submission No.:

Note: New Area - New Page & New Sample Type - New Page Date: 13 / 11 / 94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
375241			4M WEST (ROAD)	6700	3700
2			5M WEST (ROAD)	"	3750
3			5M WEST	"	3800
4				6600	3250
5				"	3300
6				"	3350
7				"	3400
8				"	3450
9				"	3500
375250				"	3550
1			3M NORTH (COSTEAN)	"	3600
2			4M SOUTH (COSTEAN)	"	3650
3				"	3700
4				"	3750
5				"	3800
6				6500	3250
7				"	3300
8				"	3350
9				"	3400
375260				"	3450
1				"	3500
2				"	3550
3				"	3600
4				"	3650
5				"	3700
6				6400	3250
7				"	3300
8				"	3350
9				"	3400
375270				"	3450

RESOLUTE RESOURCES LIMITED 329195

Project Name: TASMANIA Prospect Name: MATHINNA Tenement No.: 17/91

Sampler: NIGEL + ADRIAN Sample Type: SUBSURFACE SOILS Sample Submission No.:

Note: New Area - New Page & New Sample Type - New Page Date: 14 / 11 / 94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
375271				6400	3500
2				"	3550
3				"	3600
4				"	3650
5				6300	3250
6				"	3300
7				"	3350
8				"	3400
9				"	3450
375280				"	3500
1				"	3550
2				"	3600
3				"	3650
4			7M WEST (ROAD - PIN 7M WEST)	6200	3250
5				"	3300
6				"	3350
7				"	3400
8				"	3450
9				"	3500
375290				"	3550
1				"	3600
2				"	3650
3				"	3700
4				"	3750
5				6100	3250
6				"	3300
7				"	3350
8				"	3400
9				"	3450
375300				"	3500

RESOLUTE RESOURCES LIMITED 329136

Project Name: TASMANIA Prospect Name: MATHINNA Tenement No.: 17/91

Sampler: TINI + ADRIAN Sample Type: SUBSURFACE SOIL Sample Submission No.: K09401

Note: New Area - New Page & New Sample Type - New Page Date: 15/11/94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
375301				6100	3550
2			SAMPLE ON BANK OF CREEK 2M FROM PIN	"	3600
3				"	3650
4				"	3700
5				"	3750
6				6000	3250
7				"	3300
8				"	3350
9				"	3400
375310				"	3450
1				"	3500
2			SAMPLE ON BANK OF CREEK	"	3550
3				"	3600
4				"	3650
5				"	3700
6				"	3750
7				5900	3250
8				"	3300
9				"	3350
375320				"	3400
1				"	3450
2				"	3500
3				"	3550
4				"	3600
5				"	3650
6				"	3700
7				"	3750
8				7800	5000
9				"	5050
375330				"	5100

Hole 94 1:2

RESOLUTE RESOURCES LIMITED 329197

Project Name: TASMANIA Prospect Name: MATHINNA Tenement No.: 17/91

Sampler: Tim + Adrian Sample Type: Subsurface Soil Sample Submission No.: K9401

Note: New Area - New Page & New Sample Type - New Page Date: 16/11/94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
375331				7800	5050
2				7700	5200
3				"	5150
4				"	5100
5				"	5050
6				"	5000
7				"	4950
8				7600	5200
9				"	5150
375340				"	5100
1				"	5050
2				"	5000
3				7500	5200
4				"	5150
5				"	5100
6				"	5050
7				"	5000
8				7400	5200
9				"	5150
375350				"	5100
1				"	5050
2				"	5000
3				7100	5200
4				"	5150
5			10m East (creek)	"	5100
6				"	5050
7				"	5000
8				"	4950
9				"	4900
375360			10m North (Mine Dump)	"	4850

RESOLUTE RESOURCES LIMITED

323138

Project Name: Tasmania Prospect Name: Mathinna Tenement No.: 17/91

Sampler: Tim - Adrian Sample Type: Sub Surface soil Sample Submission No.: KC9401

Note: New Area - New Page & New Sample Type - New Page Date: 17 / 11 / 94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
375361				7100	4800
2				"	4750
3				"	4700
4				"	4650
5				"	4600
6				6900	5200
7				"	5150
8				"	5100
9				"	5050
375370				"	5000
1				"	4950
2				"	4900
3				"	4850
4				"	4800
5				"	4750
6				"	4698
7				"	4650
8				"	4600
9				6700	5200
375380				"	5150
1				"	5100
2				"	5050
3				"	5000
4				"	4950
5				"	4900
6				"	4850
7				6500	5150
8				6500	5200
9				"	5150
375390				"	5100

Done 1:12:94

329100

RESOLUTE RESOURCES LIMITED

Project Name: Tasmania Prospect Name: Mathinna Tenement No.: 17/91

Sampler: Tim + Adrian Sample Type: Sub Surface Soil Sample Submission No.: K09401

Note: New Area - New Page & New Sample Type - New Page Date: 18 / 11 / 94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
375391				6500	5050
2				"	5000
3				"	4950
4				"	4900
5				"	4850
6				6300	5200
7				"	5150
8				"	5100
9				"	5050
375400				"	5000
1				"	4950
2				6100	5200
3				"	5150
4				"	5100
5				"	5050
6				"	5000
7				5900	5200
8				"	5150
9				"	5100
375410				5700	5200
1				"	5150
2				"	5100
3				5500	5200
4			Sample 15m south above creek	"	5150
5				5400	3200
6				"	3250
7				"	3300
8				"	3350
9				"	3400
375420				"	3450

Drive 1:12 Qt.

K09401

K09403

Dave

RESOLUTE RESOURCES LIMITED

329140

Project Name: Tasmania Prospect Name: Mathinna Tenement No.: 17/91

Sampler: Jim - Adrian Sample Type: Subsurface soil Sample Submission No.: K09423

Note: New Area - New Page & New Sample Type - New Page Date: 19/11/91

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
375451				5200	3150
2				"	3100
3				"	3050
4				"	3000
5				"	2950
6				5100	3150
7				"	3100
8				"	3050
9				"	3000
375460				"	2950
1			None	5000	3150
2				"	3100
3				"	3050
4				"	3000
5				"	2950
6				4900	3150
7				"	3100
8				"	3050
9				"	3000
375470				4800	3150
1				"	3100
2				"	3050
3				4700	3150
4				"	3100
5				4600	3150
6				"	3100
7				4500	3150
8				"	3100
9				4400	3150
375480				"	3100

RESOLUTE RESOURCES LIMITED 329141

Project Name: TASMANIA Prospect Name: Mathina Tenement No.: 17-91

Sampler: Tim H. - Gary Sample Type: Subsurface soil Sample Submission No.: K09406

Note: New Area - New Page & New Sample Type - New Page Date: 30 / 11 / 94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
375511					
2					
3					
4					
5					
6					
7					
8					
9					
375520					
1					
2					
3					
4					
5					
6					
7					
8					
9					
375530					
1					
2					
3					
4					
5					
6					
7					
8					
9					
375540				6400	5250

RESOLUTE RESOURCES LIMITED 329112

Project Name: Tasmania Prospect Name: Mathina Tenement No.: 17/91

Sampler: Tim H. & Gary Sample Type: Sub Surface soil Sample Submission No.: K9406

Note: New Area - New Page & New Sample Type - New Page Date: 30/11/94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
375541				6400	5300
2				"	5350
3				"	5400
4				"	5450
5				"	5500
6				"	5550
7				"	5600
8				"	5650
9				"	5700
375550				"	5750
1				"	5800
2			5m East (Outcrop)	"	5850
3				6100	5250
4				"	5300
5				"	5350
6				"	5400
7				"	5450
8				"	5500
9				"	5550
375560				"	5600
1				"	5650
2				"	5700
3				"	5750
4				"	5800
5				"	5850
6			Pine Forest	"	5900
7				"	5950
8				"	6000
9			5m West (workings)	5800N	5250E
375570			5m West (workings)	"	5300E

329143

RESOLUTE RESOURCES LIMITED

Project Name: Tasmania Prospect Name: Mathina Tenement No.: 17/91

Sampler: Tim.H. & Gary Sample Type: Subsurface Soil Sample Submission No.: K09406

Note: New Area - New Page & New Sample Type - New Page Date: 1/12/94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
375571				5800	5350
2				"	5400
3				"	5450
4				"	5500
5				"	5550
6			10m South (Disturbance)	"	5600
7			2m North (Tree)	"	5650
8				"	5700
9				"	5750
375580			None	"	5800
1				"	5850
2			5m North (Tree)	"	5900
3				"	5950
4				"	6000
5			5m West (Road)	"	6050
6				5300	5250
7				"	5300
8				"	5350
9			2m South (creek)	"	5400
375590				"	5450
1				"	5500
2				"	5550
3				"	5600
4				"	5650
5				"	5700
6				"	5750
7				"	5800
8				"	5850
9			10m East (outcrop)	"	5900
375600			5m North (Road)	"	5950

RESOLUTE RESOURCES LIMITED 329144

Project Name: Tasmania Prospect Name: Mathina Tenement No.: 17/91

Sampler: Tim H. & Gary Sample Type: Subsurface Soil Sample Submission No.: K0946

Note: New Area - New Page & New Sample Type - New Page Date: 1/12/94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
375601			Pine Plantation	5300	6000
2				4900	5250
3				"	5300
4				"	5350
5				"	5400
6				"	5450
7				"	5500
8				"	5550
9				"	5600
375610				"	5650
1				"	5700
2				"	5750
3				"	5800
4				"	5850
5				"	5900
6				"	5950
7				"	6000
8				4000	5300
9				"	5350
375620			4M NORTH (DISTURBED GROUND)	"	5400
1				"	5450
2				"	5500
3				"	5550
4				"	5600
5				"	5650
6				"	5700
7				"	5750
8				3700	5200
9				"	5250
375630				"	5300

RESOLUTE RESOURCES LIMITED

Project Name: TASMANIA Prospect Name: MATHINA IN FILL +BLACKBOY Tenement No.: ~~K09410~~

Sampler: GARY & GRANT Sample Type: SUBSURFACE SOIL Sample Submission No.: K09410

Note: New Area - New Page & New Sample Type - New Page Date: / /

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
376021				4800	4475
2				" "	4525
3				" "	4575
4				" "	4625
5				" "	4675
6				" "	4725
7				" "	4775
8				" "	4825
9				4700	4875
376030				" "	4725
1				" "	4675
2				" "	4625
3				" "	4575
4				" "	4525
5			SAMPLE TAKEN 7M SOUTH EAST. (DISTURBANCE.)	" "	4475
6				4600	4575
7				" "	4625
8				" "	4675
9				" "	4725
376040			SAMPLE TAKEN 6M SOUTH (ROAD)	" "	4825
1				" "	4875
2				" "	4925
3				4500	4925
4				" "	4875
5				" "	4825
6				" "	4775
7				4400	4825
8			MATHINNA	" "	4875
9				" "	4925
376050			* START OF BLACKBOY RIDGE. MANGANA	10000	9550

329146

RESOLUTE RESOURCES LIMITED

Project Name: TASMANIA Prospect Name: MATHINNA + MANGANA. C horizon Tenement No.:

Sampler: T. H. & Adrian Sample Type: Sub surface soil Sample Submission No.: K0941

+ C horizon

Note: New Area - New Page & New Sample Type - New Page Date: 22/12/94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
376201			BLACKBOY RIDGE CONT	11000	9900
2				" "	9950
3				" "	10000
4			TAKEN 0.m SW (POSSIBLE LANDSLIDE HEAD)	" "	10050
5				" "	10100
6			TAKEN 6.m NW (GULLY)	" "	10150
7				" "	10200
8				11300	9750
9				" "	9800
376210			TAKEN 4.m SE (GULLY)	" "	9850
1				" "	9900
2				" "	9950
3				" "	10000
4			TAKEN 4.m SOUTH	" "	10050
5			LIKELY TO BE CONTAMINATED MULL HEAP (TAKEN ON CLD	" "	10100
6				" "	10150
7			MANGANA	" "	10200
8				" "	10250
9			MATHINNA C-HORIZON ↓	7000	4600
376220			↓ MATHINNA	" "	4650
1	C-Horizon			" "	4700
2			MATHINA C-HORIZON T	7000	4750
3				"	4800
4				"	4850
5				"	4900
6				"	4950
7				6900	4650
8				"	4700
9				"	4750
376230				"	4800

RESOLUTE RESOURCES LIMITED

329147

Project Name: Tasmania Prospect Name: Mathinna C-Horizon Tenement No.:

Sampler: Tim H & Adrian Sample Type: C-HORIZON Soil Sample Submission No.: K09411 K09412

Note: New Area - New Page & New Sample Type - New Page Date: 22 / 12 / 94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
376231			Bedrock struck at 1 foot depth /	6900	4850
2			/	11	4900
3			/	11	4950
4			/	11	5000
5			/	11	5050
6			/	11	5100
7			/	6500	~~4900~~
8			K09411 /	6500	4950
9			TAKEN 2/3 DOWN AUGER K09412 /	11 11	5000
376240			" " 5/6 " " " " SOIL STILL LOAMY /	" "	5050
1			" " 2/3 " " " " /	" "	5100
2			" " 2/3 " " " " /	" "	5150
3			" " 1/2 /	" "	5200
4			" " 2/3 /	" "	5250
5			" " 1/2 /	" "	5300
6			" " 2/3 /	" "	5350
7			" " 1/2 /	" "	5400
8			2/3 Auger depth /	6300	4950
9			2/3 Auger depth, TAKEN 1mE from original site /	" "	5000
376250			1/2 " " " " TAKEN 5mSE " /	" "	5050
1			1/3 " " " " due to big rock, but red clay soil	" "	5100
2			2/3 " " " " /	" "	5150
3			1/2 " " " " /	" "	5200
4			1/3 " " " composite from 2 holes, very shallow bedrock, taken 5m NE of original peg	" "	5250
5			1/3 " " " " /	" "	5300
6			1/2 " " " " /	" "	5350
7			1/2 " " " " /	" "	5400
8			2/3 " " " " /	6100	5000
9			2/3 " " " " /	" "	5050
376260			Full depth /	6100	5100

RESOLUTE RESOURCES LIMITED

329148

Project Name: TASMANIA Prospect Name: Mathina (C-horizon) Tenement No.:

Sampler: Tim H & Adrian Sample Type: C-HORIZON (C-horizon) Sample Submission No.: KC9412

Note: New Area - New Page & New Sample Type - New Page Date: 25/12/94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
376261			3/4 depth	6100	5150
2			3/4	"	5200
3			1/2 (bedrock)	"	5250
4			2/3	"	5300
5			1/3 (very rocky ground)	"	5350
6			1/2 (" ")	"	5400
7			1/2 (bedrock)	"	5450
8			1/2 (" ")	"	5500
9			2/3	5900	5100
376270			2/3	"	5150
1			2/3	"	5200
2			Full	"	5250
3			Full	"	5300
4			Full	"	5350
5			3/4	"	5400
6			1/2	"	5450
7			1/3 5m North (Shaft)	"	5500
8			3/4	"	5550
9			1/3 (rocky ground)	"	5600
376280			3/4	"	5650
1			Full	"	5700
2			Full	"	5750
3			Medium	" "	5800
4			Deep	5500	5150
5			Shallow (Bedrock at 1ft)	" "	5200
6			Medium	" "	5250
7			Medium	" "	5300
8			Shallow (Bedrock at 1ft)	" "	5350
9			Medium (Taken 5m N, old Roadway)	" "	5400
376290			Deep (10m W, Creek)	5400	5250

RESOLUTE RESOURCES LIMITED

329140

Project Name: TASMANIA Prospect Name: MATHINNA Tenement No.:

Sampler: CRAIG & GEORGE Sample Type: C-Horizon Sample Submission No.: K09412

Note: New Area - New Page & New Sample Type - New Page Date: 23/12/94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
376291			Deep (Taken 12m E, workings)	5400	5300
2			Deep	" "	5350
3			" "	" "	5400
4			" "	" "	5450
5			Medium	" "	5500
6					
7					
8					
9					
376300					
1			MISSED SAMPLE ON PREVIOUS DAY	6500	4850
2			CONTINUED FROM 380000	5800	5600
3			Medium	" "	5650
4			Medium (suspect, rocky/loose)	" "	5700
5			" "	" "	5750
6			Deep	5600	5100
7			" "	" "	5150
8			Very Deep	" "	5200
9			Medium	" "	5250
376310			Deep	" "	5300
1			Medium	" "	5350
2			" "	" "	5400
3			" "	" "	5450
4			Deep	" "	5500
5			Medium	" "	5550
6			Shallow (suspect shallow bedrock)	" "	5600
7			Deep	" "	5650
8			" "	5300	5100
9			" "	" "	5150
376320			" "	" "	

RESOLUTE RESOURCES LIMITED

329150

Project Name: TASMANIA Prospect Name: MATHINNA Tenement No.:

Sampler: CRAIG & GARRY Sample Type: C-HORIZON Sample Submission No.: K09412 K09413

Note: New Area - New Page & New Sample Type - New Page Date: 29/12/94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
376321			very deep	5800	5250
2			" " " "	" "	5300
3			3/4 AUGER TO ROCK	"	5350
4			2/3 " TO BED ROCK	"	5400
5			2/3 " TO ROCK ↑ K09412	"	5450
6			2/3 " TO BED ROCK	"	5500
7			1/2	5900	5550
8			1/2 ↓ K09	"	5900
9			full	"	5950
376330			2/3	"	6000
1			1/3 very rocky	"	6050
2			Medium	5800	5800
3			Medium	"	5850
4			Deep	"	5900
5			Deep	"	5950
6			Medium	"	6000
7			Medium	"	6050
8			Deep	5700	5800
9			Deep	"	5850
376340			Med	"	5900
1			Med	5600	5700
2			Deep	"	5750
3			Deep	"	5800
4			Deep	"	5850
5			Deep	"	5900
6			Deep	"	5950
7			1/3	5500	5450
8			Shallow	5500	5500
9			1/3	"	5550
376350			Deep	"	5600

RESOLUTE RESOURCES LIMITED

329151

Project Name: Tasmania Prospect Name: [redacted] Tenement No.:

Sampler: Tim, Adrian, Gary Sample Type: [redacted] Sample Submission No.:

Note: New Area - New Page & New Sample Type - New Page Date: 30/12/94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
376351			Full	5500	5650
2			Deep	"	5700
3			Full	"	5750
4			Deep	"	5500
5			Medium	5400	5550
6			Deep	"	5600
7			Deep	"	5650
8			Deep	"	5700
9			Medium	"	5750
376360			Full Auger length	5300	5550
1			Full	"	5600
2			Full	"	5650
3			3/4	"	5700
4			3/4	"	5750
5			Full	"	5800
6			3/4	"	5850
7			Shallow	5200	5750
8			Medium	"	5800
9			Medium	"	5850
376370			Shallow	"	5900
1			Full Auger	"	5050
2			3/4	"	5100
3			Deep	"	5150
4			Deep	"	5200
5			Deep	"	5250
6			Deep	5100	5050
7			Deep	5000	5050
8			Deep	5000	5000
9			Deep	5100	5900
376380			Medium	5100	5450

RESOLUTE RESOURCES LIMITED 329152

Project Name: Tasmania Prospect Name: McLung Tenement No.:

Sampler: Tim, Greg, Adrian Sample Type: C-Horizon Sample Submission No.:

Note: New Area - New Page & New Sample Type - New Page Date: 30 / 12 / 94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
376381			Soil Auger [redacted] C-Horizon [redacted]	5100	6000
2		13/1/95	START OF CHINAMANS HILL [redacted] KO9415 INFILL	9950	3425
3				"	3450
4				"	3475
5				"	3500
6				"	3525
7				"	3550
8				"	3400
9				"	3375
376390				"	3350
1				9850	3400
2			4M SOUTH - OLD WORKINGS	"	3425
3				"	3450
4				"	3475
5				"	3500
6				"	3525
7				"	3550
8				"	3575
9				"	3600
376400				"	3625
1				"	3650
2				"	3375
3				"	3350
4				"	3325
5				"	3300
6				9750	3400
7				"	3425
8				"	3450
9				"	3475
376410				"	3500

RESOLUTE RESOURCES LIMITED

329153

Project Name: TASMANIA Prospect Name: ~~MARLEHUNA~~ CHINAMANS HILL INFILL Tenement No.:

Sampler: GARY & MIKE Sample Type: ~~SOIL~~ SUBSURFACE SOIL Sample Submission No.: K0941S

Note: New Area - New Page & New Sample Type - New Page Date: 18 / 1 / 95

Sample No.	Drillhole	Interval	K0941S Description	Coordinates N	Coordinates E
376411				9750	3525
2				"	3550
3				"	3575
4				"	3600
5				"	3625
6				"	3650
7				"	3675
8				"	3700
9				"	3375
376420				"	3350
1				"	3325
2				"	3300
3				9650	3400
4				"	3425
5				"	3450
6				"	3475
7				"	3500
8				"	3525
9				"	3550
376430				"	3575
1				"	3600
2				"	3375
3				"	3350
4				9550	3400
5				"	3425
6				"	3450
7				"	3475
8				"	3500
9				"	3525
376440				"	3550

RESOLUTE RESOURCES LIMITED 329154

Project Name: TASMANIA Prospect Name: ~~BALFOUR~~ MATHINNA INFILL CHINAMANS HILL Tenement No.: ~~B~~ A HORIZON

Sampler: GARY & MIKE Sample Type: SUBSURFACE SOIL Sample Submission No.: K09415

Note: New Area - New Page & New Sample Type - New Page Date: 20 / 1 / 95

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
376441				9550	3575
2				"	3600
3				"	3375
4				"	3350
5			6 m. NORTH (SUSPECT - OLD WORKINGS)	9450	3400
6				"	3425
7				"	3450
8				"	3475
9				"	3500
376450				"	3525
1				"	3550
2				"	3575
3				"	3600
4				9350	3400
5				"	3425
6			SUSPECT - (POSSIBLE OLD WORKINGS ABOVE)	"	3450
7				"	3475
8				"	3500
9				"	3525
376460				"	3550
1				"	3575
2				"	3600
3				10650	3400
4			5m SOUTH EAST (ROAD)	"	3425
5			6m WEST ROAD - (P.N 3½ m WEST)	"	3450
6				"	3475
7				10550	3400
8			6m SOUTH (SUSPECT - NEAR WORKINGS)	"	3425
9			5m WEST (ROAD)	"	3450
376470			4m WEST (ROAD)	"	3475

RESOLUTE RESOURCES LIMITED

329155

Project Name: TEMPLE | Prospect Name: MATHINNA CHINAMANS HILL INFILL | Tenement No.:

Sampler: GARY & MIKE | Sample Type: SURFACE SOIL | Sample Submission No.: KC9415

Note: New Area - New Page & New Sample Type - New Page | Date: 20/1/95

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
376471				10550	3500
2				10450	3400
3				"	3425
4				"	3450
5				"	3475
6				"	3500
7				10350	3400
8				"	3425
9				"	3450
376480				"	3475
1				"	3500
2				10250	3400
3				"	3425
4				"	3450
5				"	3475
6				"	3500
7				"	3525
8				"	3550
9				"	3575
376490				"	3600
1			4m NORTH (ROAD)	"	3375
2			KC9415	10350	3525
3			(START OF JUBILEE INFILL)	5250	4325
4				"	4350
5				"	4375
6			10m WEST (OLD WORKINGS)	"	4400
7				"	4425
8			3m EAST (ROAD)	"	4450
9			10m SOUTH-WEST (PIN AT ENTRANCE TO ADIT)	"	4475
376500			SUSPECT - (NEAR MULLOCK HEAPS & ALLUVIAL CREEK)	"	4500

None

RESOLUTE RESOURCES LIMITED

329156

Project Name: TASMANIA Prospect Name: MATHINNA. Tenement No.: 17/91

Sampler: MICHAEL + ADRIAN Sample Type: SUBSURFACE SOILS Sample Submission No.:

Note: New Area - New Page & New Sample Type - New Page Date: 10/11/94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
376501			15M NORTH (ROAD)	7600	4200
2				"	4165
3			15M SOUTH (HOUSE)	"	4350
4				7500	4300
5				"	4350
6				"	4400
7				7400	4300
8				"	4250
9				"	4200
376510			10M EAST	"	4150
1			15M SOUTH (DOZED)	"	4350
2				7300	4300
3			5M SOUTH (TRACK)	"	4250
4				"	4200
5			DOZED AREA.	"	4350
6				7200	4300
7				"	4250
8				"	4200
9				"	4150
376520				7000	4300
1				"	4250
2				"	4200
3			4M SOUTH NEXT TO GRAVEL ROAD	"	4150
4				"	4100
5				6800 ~~6800~~	4300 ~~4150~~
6			~~6~~ PEG MOVED 3M NORTH DUE TO ROAD	6800	4250
7				"	4200
8				"	4150
9				"	4350
376530			SAMPLE 5M NORTH NEXT TO GRAVEL ROAD	"	4400

RESOLUTE RESOURCES LIMITED

329157

Project Name: TASMANIA Prospect Name: MATHINNA Tenement No.: 17/91

Sampler: JAMES + MIKE Sample Type: SUB~~SOIL~~ SURFACE SOIL Sample Submission No.:

Note: New Area - New Page & New Sample Type - New Page Date: 12 / 11 /94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
376531			SAMPLE AREA DOZED BUT IS ORIGINAL SUBSOIL	6800	4450
2				6600	4300
3				"	4250
4				"	4350
5				"	4400
6			8M WEST	"	4450
7			SAMPLE 3M WEST	6400	4300
8				"	4250
9				"	4200
376540				"	4150
1			SUSPECT SAMPLE (PASTURE)	"	4100
2				"	4050
3				"	4000
4				"	3950
5				"	3900
6				"	3850
7				"	3800
8				"	4400
9				"	4450
376550				"	4500
1				"	4550
2				6200	4300
3			BELOW MINE TAILINGS	"	4250
4				"	4200
5				"	4150
6				"	4100
7				"	4050
8				"	4000
9				"	3950
376560				"	3900

Done 1.12.94

RESOLUTE RESOURCES LIMITED

329158

Project Name: TASMANIA Prospect Name: MATHINNA Tenement No.: 17/91

Sampler: JAMES + MIKE Sample Type: SUBSURFACE SOIL Sample Submission No.:

Note: New Area - New Page & New Sample Type - New Page Date: 12 / 11 / '94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
376561				6200	3850
2				"	3800
3				"	4350
4				"	4400
5			SUSPECT SAMPLE NEXT TO OLD CREEK BED	"	4450
6				"	4500
7			NEXT TO GRAVEL ROAD	"	4600
8				"	4650
9				6000	4300
376570				"	4250
1			NEXT TO OLD TRACK	"	4200
2				"	4150
3				"	4100
4			COSTEANS 6M ABOVE	"	4050
5				"	4000
6				"	3950
7				"	3900
8				"	3850
9				"	3800
376580			DOWN + SLIGHTLY TO SIDE OF TAILINGS	"	4350
1				"	4400
2				"	4450
3				"	4500
4				5800	4300
5				"	4250
6				"	4200
7				"	4150
8				"	4100
9				"	4050
376590				"	4000

RESOLUTE RESOURCES LIMITED

329159

Project Name: TASMANIA Prospect Name: MATHINNA Tenement No.: 17/91

Sampler: JAMES + MIKE Sample Type: SUBSURFACE SOIL Sample Submission No.:

Note: New Area - New Page & New Sample Type - New Page Date: 13 / 11 / 94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
376591				5800	3950
2				"	3900
3				"	3850
4				"	3800
5				"	4350
6				"	4400
7				"	4450
8				5600	4300
9				"	4250
376600			SAMPLE 2m WEST NEXT TO MINE TAILINGS	"	4200
1				"	4150
2				"	4100
3			DOWN FROM COSTEAN	"	4050
4			DOWN FROM COSTEAN	"	4000
5			DOWN + TO SIDE (1M) FROM COSTEAN	"	3950
6				"	3900
7				"	3850
8				"	3800
9				"	4350
376610				"	4400
1				5700	4300
2				"	4250
3				"	4200
4				"	4150
5			SAMPLE 2M WEST	"	4100
6				"	4050
7				"	4000
8				"	3950
9			NEXT TO COSTEAN	"	3900
376620				"	3850

Done 4.12.94

RESOLUTE RESOURCES LIMITED

329160

Project Name: TASMANIA Prospect Name: MATHINNA Tenement No.: 17/91

Sampler: JAMES + MIKE Sample Type: SUBSURFACE SOIL Sample Submission No.:

Note: New Area - New Page & New Sample Type - New Page Date: 14 / 11 /94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
376621				5700	3800
2				"	4350
3				"	4400
4			DOWN FROM COSTEAN	5500	4300
5				"	4250
6				"	4200
7				"	4150
8				"	4100
9				"	4050
376630				"	4000
1				"	3950
2				"	3900
3				"	3850
4				"	3800
5				"	4350
6				"	4400
7			DOWN & TO SIDE OF COSTEAN	"	4450
8				5900	4300
9				"	4250
376640				"	4200
1			DOWN FROM COSTEAN	"	4150
2			SAMPLE 7M NORTH NEXT TO & DOWN FROM COSTEANS	"	4100
3				"	4050
4				"	4000
5				"	3950
6				"	3900
7				"	3850
8				"	3800
9				"	4350
376650				"	4400

RESOLUTE RESOURCES LIMITED

329161

Project Name: TASMANIA Prospect Name: MATHINNA Tenement No.: 17/91

Sampler: JAMES + MIKE Sample Type: SUBSURFACE SOIL Sample Submission No.:

Note: New Area - New Page & New Sample Type - New Page Date: 14 / 11 / 94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
376651				5900	4450
2				6100	4300
3				"	4250
4				"	4200
5				"	4150
6				"	4100
7				"	4050
8				"	4000
9				"	3950
376660			BESIDE OLD CREEK (ON BANK)	"	3900
1				"	3850
2				"	3800
3				"	4350
4				"	4400
5				"	4450
6				5500	3250
7				"	3300
8			DOWN FROM ROAD RUBBLE	"	3350
9				"	3400
376670				"	3450
1				"	3500
2				"	3550
3				"	3600
4				"	3650
5				"	3700
6				"	3750
7				5600	3250
8			3M AWAY FROM COSTEAN	"	3300
9				"	3350
376680				"	3400

RESOLUTE RESOURCES LIMITED

329162

Project Name: TASMANIA Prospect Name: MATHINNA Tenement No.: 17/91

Sampler: JAMES + MIKE Sample Type: SUBSURFACE SOIL Sample Submission No.: K0940

Note: New Area - New Page & New Sample Type - New Page Date: 15 / 11 / '94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
376681				5600	3450
2				"	3500
3				"	3550
4				"	3600
5				"	3650
6				"	3700
7				"	3750
8				5700	3250
9				"	3300
376690				"	3350
1				"	3400
2				"	3450
3				"	3500
4			DOWN FROM SMALL COSTEAN	"	3550
5				"	3600
6				"	3650
7				"	3700
8				"	3750
9				5800	3250
376700				"	3300
1				"	3350
2				"	3400
3				"	3450
4			PEG 1M WEST SAMPLE WEST 3M ON BANK OF CREEK	"	3500
5				"	3550
6				"	3600
7				"	3650
8				"	3700
9				"	3750
376710				5900	3200

Jane 12.94

RESOLUTE RESOURCES LIMITED

329163

Project Name: TASMANIA Prospect Name: MATHINNA Tenement No.: 17/91

Sampler: JAMES + MIKE Sample Type: SUBSURFACE SOIL Sample Submission No.: KB9401

Note: New Area - New Page & New Sample Type - New Page Date: 16 / 11 / 94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E	
376711				7300	5150	
2				"	5100	
3				"	5050	
4				"	4950	
5				"	4900	
6				"	4850	
7			SURROUNDED BY MINE SHAFTS + TAILINGS	"	4800	
8				"	4750	
9				"	4700	A
376720			BELOW DOZER EXCAVATION	"	4650	A
1			BOTTOM SIDE OF GRAVEL ROAD	"	4600	A
2				"	4550	A
3				7200	5200	
4				"	5150	
5				"	5100	
6			SUSPECT SAMPLE (ALUVIAL)	"	5050	
7				"	5000	
8				"	4950	
9				"	4900	
376730				"	4850	
1				"	4800	
2				"	4750	
3			DOWN FROM COSTEAN	"	4700	
4				"	4650	
5				"	4600	
6				"	4550	
7			SUSPECT SAMPLE NEXT TO CREEK	7000	5200	
8				"	5150	
9			SUSPECT SAMPLE (ALUVIAL/BUSH SLOPE)	"	5100	
376740				"	5050	

Above 1:12.5K

RESOLUTE RESOURCES LIMITED 329164

Project Name: TASMANIA Prospect Name: MATHINNA Tenement No.: 17/91

Sampler: JAMES + MIKE Sample Type: SUBSURFACE SOIL Sample Submission No.: K09401

Note: New Area - New Page & New Sample Type - New Page Date: 17 / 11 / 94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
376741				7000	5000
2				"	4950
3				"	4900
4				"	4850
5				"	4800
6				"	4750
7				"	4700
8				"	4650
9				"	4600
376750				6800	5200
1				"	5150
2				"	5100
3				"	5050
4				"	5000
5				"	4950
6				"	4900
7				"	4850
8				"	4800
9				"	4750
376760				6600	5200
1				"	5150
2				"	5100
3				"	5050
4				"	5000
5				"	4950
6				"	4900
7				"	4850
8				6400	5200
9				"	5150
376770				"	5100

None

RESOLUTE RESOURCES LIMITED

329165

Project Name: TASMANIA Prospect Name: MATHINNA Tenement No.: 17/91

Sampler: JAMES + MIKE Sample Type: SUBSURFACE SOIL Sample Submission No.: K0940/03

Note: New Area - New Page & New Sample Type - New Page Date: 19 / 11 / 94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
376771				6400	5050
2				"	5000
3				"	4950
4			K09401	"	4900
5			K09403	6200	5200
6				"	5150
7				"	5100
8				"	5050
9			BELOW GRAVEL ROAD	"	5000
376780				6000	5200
1				"	5150
2				"	5100
3				"	5050
4				5800	5200
5				"	5150
6			SAMPLE 4M NORTH NEXT TO ROAD	5600	5200
7				"	5150
8				"	5100
9				5300	3200
376790				"	3250
1				"	3300
2				"	3350
3				"	3400
4				"	3450
5				"	3500
6				"	3550
7				"	3600
8			PEG 2M WEST SAMPLE 2M SOUTH OF PEG	"	3650
9				"	3700
376800				"	3750

RESOLUTE RESOURCES LIMITED

329166

Project Name: TASMANIA Prospect Name: MATHINNA Tenement No.: 17/91

Sampler: JAMES + MIKE Sample Type: SUBSURFACE SOIL Sample Submission No.: K0940 3

Note: New Area - New Page & New Sample Type - New Page Date: 19 / 11 / 94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
376831				4700	3550
2				"	3600
3			PEG 1M SOUTH SAMPLE 5M SOUTH OF PEG	"	3650
4				4500	3200
5				"	3250
6				"	3300
7				"	3350
8				"	3400
9				"	3450
376840			BELOW COSTEAN, ON EDGE OF CREEK	"	3500
1				"	3550
2				"	3600
3				"	3650
4				4300	3200
5				"	3250
6				"	3300
7				"	3350
8				"	3400
9				"	3450
376850				"	3500
1				"	3550
2				"	3600
3				"	3650
4				"	3700
5				"	3750
6				5300	4300
7				"	4250
8				"	4200
9				"	4150
376860				"	4100

RESOLUTE RESOURCES LIMITED

329167

Project Name: TASMANIA · Prospect Name: MATHINNA Tenement No.: 17/91

Sampler: JAMES + MIKE Sample Type: SUBSURFACE SOIL Sample Submission No.: K09403

Note: New Area - New Page & New Sample Type - New Page Date: 20 / 11 / 94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
376861				5300	4050
2				"	4000
3				"	3950
4				"	3900
5				"	3850
6				"	3800
7				5300	4350
8				"	4400
9				"	4450
376870				"	4500
1				"	4550
2			None	"	4600
3				"	4650
4				"	4700
5				"	4750
6				"	4800
7				"	4850
8				5100	4300
9				"	4250
376880				"	4200
1				"	4150
2				"	4100
3				"	4050
4				"	4000
5				"	3950
6				"	3900
7				"	3850
8				"	3800
9				"	4350
376890				"	4400

RESOLUTE RESOURCES LIMITED

329168

Project Name: TASMANIA Prospect Name: MATHINNA Tenement No.: 17/91

Sampler: MIKE + BRIAN Sample Type: SUBSURFACE SOILS Sample Submission No.: K09403

Note: New Area - New Page & New Sample Type - New Page Date: 21/11/94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
376891				5100	4450
2				"	4500
3				"	4550
4				"	4600
5				"	4650
6				"	4700
7				"	4750
8				"	4800
9				"	4850
376900			None	4900	4300
1				"	4250
2				"	4200
3				"	4150
4				"	4100
5				"	4050
6				"	4000
7				"	3950
8				"	3900
9				"	3850
376910				"	3800
1				4900	4350
2				"	4400
3				"	4450
4				"	4500
5				"	4550
6				"	4600
7				"	4650
8				"	4700
9			NEAR DEEP ADIT	"	4750
376920				"	4800

RESOLUTE RESOURCES LIMITED

329169

Project Name: TASMANIA Prospect Name: MATHINNA Tenement No.: 17/91

Sampler: NIGEL MIKE Sample Type: SUBSURFACE SOILS Sample Submission No.: K09403/04

Note: New Area - New Page & New Sample Type - New Page Date: 24 / 11 / 94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
377011				4000	4200
2				"	4150
3				"	4100
4				"	4050
5				"	4000
6				"	3950
7				"	3900
8				"	3850
9			10 M WEST (CREEK) K09403	"	3800
377020			K09404	4000	4350
1				"	4400
2				"	4450
3				"	4500
4				"	4550
5				"	4600
6				"	4650
7				"	4700
8				"	4750
9			K09403	"	4800
377030			K09404	"	4850
1				"	4900
2				"	4950
3				"	5000
4				"	5050
5				5300	5200
6				"	5150
7				"	5100
8				5200	5200
9				"	5150
377040				"	5100

RESOLUTE RESOURCES LIMITED 329170

Project Name: TASMANIA Prospect Name: MATHINNA Tenement No.: 17/91

Sampler: NIGEL MIKE Sample Type: SUBSURFACE SOILS Sample Submission No.: K09404

Note: New Area - New Page & New Sample Type - New Page Date: 25/11/94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
377041			PIN + SAMPLE 5M EAST (CREEK)	5200	5055
2				5100	5200
3			3M EAST (DRAIN)	"	5150
4				"	5100
5			PIN + SAMPLE 5M EAST (ROAD)	"	5055
6				5000	5200
7				"	5150
8				"	5100
9				"	5050
377050				"	5000
1				4900	5200
2				"	5150
3				"	5100
4				"	5050
5				"	5000
6			10M EAST (FLOOD PLAIN)	"	4950
7				4800	5200
8				"	5150
9				"	5100
377060				"	5050
1			VISIBLE GOLD IN QUARTZ	"	5000
2			5M EAST (ROAD)	"	4950
3				4700	5200
4			10M EAST (ROAD)	"	5150
5				"	5100
6				"	5050
7			23M EAST (OLD WORKINGS/DUMPS)	"	5000
8			BELOW OLD WORKINGS/TRACK?	"	4950
9			SUSS SAMPLE – ALLUVIUM?	"	4900
377070				4600	5200

RESOLUTE RESOURCES LIMITED 329171

Project Name: TASMANIA Prospect Name: MATHINNA Tenement No.: 17/91

Sampler: MIKE & SHALEY Sample Type: SUBSURFACE SOILS Sample Submission No.: K09404/05

Note: New Area - New Page & New Sample Type - New Page Date: 26/11/94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
377071			K09404	4600	5150
2			CHINAMANS HILL K09405	10000	3400
3			↓	"	3350
4				"	3300
5				"	3250
6			Do'd	"	3200
7				"	3150
8				"	3100
9			↓	"	3050
377080				"	3000
1				"	2950
2				"	2900
3				"	2850
4				"	2800
5				10000	3450
6				"	3500
7				"	3550
8				"	3600
9				"	3650
377090				"	3700
1			PEG + SAMPLE 15M WEST (3735E) - ROAD.	"	3735
2			↓ 9404A	9800	3400
3				"	3350
4				"	3300
5				"	3250
6			Do'd	"	3200
7				"	3150
8				"	3100
9				"	3050
377100				"	3000

RESOLUTE RESOURCES LIMITED

3291/92

Project Name: TASMANIA Prospect Name: CINNAMENS HILL MATHINNA Tenement No.: [illegible]

Sampler: MIKE SHURY Sample Type: SUBSURFACE SOILS Sample Submission No.: K0945

Note: New Area - New Page & New Sample Type - New Page Date: 26/11/94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
377101				9800	2950
2				"	2900
3				"	2850
4				"	2800
5				9800	3450
6				"	3500
7				"	3550
8				"	3600
9				"	3650
377110				"	3700
1				"	3750
2				"	3800
3				9600	3400
4				"	3350
5				"	3300
6				"	3250
7				"	3200
8				"	3150
9				"	3100
377120				"	3050
1				"	3000
2				"	2950
3				"	2900
4				"	2850
5				"	2800
6				9600	3450
7				"	3500
8				"	3550
9				"	3600
377130				"	3650

RESOLUTE RESOURCES LIMITED

Project Name: TASMANIA Prospect Name: CHINAMANS HILL MATHINNA Tenement No.: 329173

Sampler: MIKE + SHAWN Sample Type: SUBSURFACE SOILS Sample Submission No.: K09405

Note: New Area - New Page & New Sample Type - New Page Date: 28 / 11 / 94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
377131				9600	3700
2				"	3750
3				"	3800
4				"	3850
5				"	3900
6			5m S/WEST	"	3950
7				9400	3400
8				"	3350
9				"	3300
377140				"	3250
1				"	3200
2				"	3150
3				"	3100
4				"	3050
5				"	3000
6			4m EAST (WORKINGS)	"	2950
7				"	2900
8				"	2850
9				"	2800
377150				9400	3450
1				"	3500
2				"	3550
3				"	3600
4				"	3650
5				"	3700
6				"	3750
7				"	3800
8				"	3850
9				"	3900
377160				"	3950

RESOLUTE RESOURCES LIMITED

329171

Project Name: TASMANIA Prospect Name: MATHINNA Tenement No.: ~~[illegible]~~

Sampler: JAMES + MIKE Sample Type: SUBSURFACE SOIL Sample Submission No.: K09405/04

Note: New Area - New Page & New Sample Type - New Page Date: 29 / 11 / 94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
377161			PEG + SAMPLE AT (3980E) ROAD K09405	9400	3980
2			K09404	7600	5250
3			↓	"	5300
4				7500	5250
5				"	5300
6				7400	5250
7				"	5300
8				7300	5250
9				"	5300
377170				"	5350
1				7200	5250
2				"	5300
3				"	5350
4				"	5400
5				7100	5250
6				"	5300
7				"	5350
8				7100	5400
9				"	5450
377180				6900	5250
1			SAMPLE ON BANK OF CREEK	"	5300
2				"	5350
3				"	5400
4				"	5450
5				"	5500
6				"	5550
7				"	5600
8				"	5650
9				"	5700
377190				6700	5250

RESOLUTE RESOURCES LIMITED

329175

Project Name: TASMANIA Prospect Name: MATHINNA Tenement No.: [illegible]

Sampler: JAMES + MIKE Sample Type: SUBSURFACE SOIL Sample Submission No.: K09404/06

Note: New Area - New Page & New Sample Type - New Page Date: 29 / 11 / 94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
377191				6700	5300
2				"	5350
3				"	5400
4				"	5450
5				"	5500
6				"	5550
7				"	5600
8				"	5650
9				"	5700
377200				"	5750
1				"	5800
2			K09404	"	5850
3			K09406	6500	5250
4				"	5300
5				"	5350
6				"	5400
7				"	5450
8				"	5500
9				"	5550
377210				"	5600
1				"	5650
2				"	5700
3				"	5750
4				"	5800
5				"	5850
6				6200	5250
7				"	5300
8			SAMPLE 6M SOUTH EAST BETWEEN 2 COSTEANS	"	5350
9				"	5400
377220				"	5450

RESOLUTE RESOURCES LIMITED

329176

Project Name: TASMANIA Prospect Name: MATHINNA Tenement No.: ~~XXXX~~

Sampler: JAMES + MIKE Sample Type: SUBSURFACE SOIL Sample Submission No.: K0940

Note: New Area - New Page & New Sample Type - New Page Date: 30 / 11 / 94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
377221				6200	5500
2				"	5550
3				"	5600
4				"	5650
5				"	5700
6				"	5750
7				"	5800
8				"	5850
9			48m BECAUSE OF FIRE TRUCK SAMPLE AREA DOZED	"	5895
377230				"	5950
1				5900	5250
2				"	5300
3				"	5350
4				"	5400
5				"	5450
6			SAMPLE 3m NORTH NEAR COSTEAN	"	5500
7				"	5550
8				"	5600
9				"	5650
377240				"	5700
1				"	5750
2				"	5800
3			SAMPLE EAST 3m AWAY FROM ROAD	"	5850
4			" 10m NORTH, TOP SIDE OF ROAD	"	5900
5				"	5950
6				"	6000
7			7m SOUTH-EAST (AREA LIGHT DOZING)	"	6050
8				5500	5250
9				"	5300
377250				"	5350

Done

RESOLUTE RESOURCES LIMITED

329177

Project Name: TASMANIA Prospect Name: MATHINNA Tenement No.: [illegible]

Sampler: JAMES + MIKE Sample Type: SUBSURFACE SOIL Sample Submission No.: K0940

Note: New Area - New Page & New Sample Type - New Page Date: 1/12/94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
377251			SAMPLE 5M NORTH ABOVE TRACK	5500	5400
2			SAMPLE 2M NORTH " "	"	5450
3				"	5500
4			" 9M NORTH ABOVE TRACK	"	5550
5				"	5600
6				"	5650
7			SAMPLE 3M NORTH TOPSIDE OF TREE	"	5700
8				"	5750
9				"	5800
377260				"	5850
1				"	5900
2				"	5950
3				"	6000
4				5100	5250
5				"	5300
6				"	5350
7			PEG 45M 'COS ROAD, SAMPLE 4M SOUTH 'COS ROAD	"	5395
8			SAMPLE 10M SOUTH ABOVE ROAD	"	5450
9			SAMPLE 5M NORTH-EAST BUT BELOW ROAD	"	5500
377270				"	5550
1				"	5600
2			Sample taken 5m South (disturbance above peg)	"	5650
3				"	5700
4				"	5750
5			Sample taken 10m North northeast (disturbance above peg)	"	5800
6				"	5850
7			Sample taken 5m westerly (Outcrop)	"	5900
8				"	5950
9				"	6000
377280				4700	5250

RESOLUTE RESOURCES LIMITED

329178

Project Name: TASMANIA Prospect Name: MATTINNA Tenement No.: ~~XXXX~~

Sampler: CRAIG K. & BRIAN S. Sample Type: SUBCROP SOIL Sample Submission No.: K0946

Note: New Area - New Page & New Sample Type - New Page Date: 1/12/94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
377701				5700	5250
2			15m SOUTH (TRACK) ~~East (Extended)~~	5700	5300
3			10m South (track)	5700	5350
4			7m South (track)	" "	5400
5				" "	5450
6				" "	5500
7			15m East (working)	" "	5550
8			5m South (workings)	" "	5600
9				" "	5650
377710			15m East (Road)	" "	5700
1				" "	5750
2			3m South (Outcrop)	" "	5800
3			8m North West	" "	5850
4			Very loamy	" "	5900
5			15m East, 5m North (Gully)	5400	5250
6			15m North (Adit)	" "	5300
7				" "	5350
8				" "	5400
9				" "	5450
377720				" "	5500
1			20m North West (above workings	" "	5550
2			5m North	" "	5600
3			3m West	" "	5650
4			5m South	" "	5700
5				"	5750
6				"	5800
7				"	5850
8				"	5900
9				"	5950
377730			8m NORTH (ROADS)	"	6000

RESOLUTE RESOURCES LIMITED 329179

Project Name: TASMANIA Prospect Name: MATHINNA Tenement No.: 17/91

Sampler: NIGEL + BRIAN Sample Type: -3MM SUBSURFACE SOIL Sample Submission No.:

Note: New Area - New Page & New Sample Type - New Page Date: 11 / 11 / 94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
378001				7100	4300
2				"	4250
3				"	4200
4				"	4150
5				"	4100
6				"	4050
7				6900	4300
8				"	4250
9				"	4200
378010				"	4150
1			15M WEST (ROAD)	"	4350
2				6700	4300
3				"	4250
4			10M EAST	"	4200
5				"	4350
6				"	4400
7				6500	4350
8				"	4400
9				"	4450
378020				"	4500
1				6300	4300
2			10M SOUTH (COSTEAN)	"	4250
3				"	4200
4				"	4150
5				"	4100
6				"	4050
7			10M EAST (COSTEAN)	"	4000
8				"	3950
9			NEAR COSTEAN	"	3900
378030				"	3850

RESOLUTE RESOURCES LIMITED

329180

Project Name: TASMANIA Prospect Name: MATHINNA Tenement No.: 17/91

Sampler: NIGEL + BRIAN Sample Type: SUBSURFACE SOIL Sample Submission No.: K09401/03

Note: New Area - New Page & New Sample Type - New Page Date: 11/11/94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
378031			Done 9A 1:12	6300	3800
2				"	4350
3				"	4450
4				"	4500
5				"	4550
6			SAMPLE 6M EAST BELOW GRAVEL ROAD K09401	"	4600
7			K09403	5000.	3200
8				"	3250
9				"	3300
378040				"	3350
1				"	3400
2				"	3450
3				"	3500
4				"	3550
5			Above	"	3600
6				"	3650
7				"	3700
8				"	3750
9				4800	3200
378050				"	3250
1				"	3300
2				"	3350
3				"	3400
4				"	3450
5				"	3500
6				"	3550
7				"	3600
8				"	3650
9				"	3700
378060				"	3750

RESOLUTE RESOURCES LIMITED

329181

Project Name: TASMANIA Prospect Name: MATHINNA Tenement No.: 17/91

Sampler: NIGEL + SIMON Sample Type: SOIL SURFACE SOILS Sample Submission No.: KC9403

Note: New Area - New Page & New Sample Type - New Page Date: 19 / 11 / 94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
378061			8 M SOUTH (CREEK)	4600	3200
2				"	3250
3				"	3300
4				"	3350
5				"	3400
6				"	3450
7				"	3500
8				"	3550
9				"	3600
378070				"	3650
1				"	3700
2				"	3750
3				4400	3200
4				"	3250
5				"	3300
6				"	3350
7				"	3400
8				"	3450
9				"	3500
378080				"	3550
1				"	3600
2				"	3650
3				"	3700
4				"	3750
5				5400	4300
6				"	4250
7				"	4200
8				"	4150
9				"	4100
378090				"	4050

RESOLUTE RESOURCES LIMITED

329182

Project Name: Tasmania Prospect Name: Mathinna Tenement No.: 17/91

Sampler: Tim + Adrian Sample Type: Soil Surface Soil Sample Submission No.: K09403

Note: New Area - New Page & New Sample Type - New Page Date: 21 / 11 / 91

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
378091				5400	4000
2				"	3950
3				"	3900
4				"	3850
5				"	3800
6				"	4350
7				"	4400
8				"	4450
9				"	4500
378100			Sample 3m E of Pin above creek	"	4550
1				"	4600
2				"	4650
3				"	4700
4				"	4750
5				"	4800
6			Sample 5m W of pin above old workings	"	4850
7				"	4900
8				5200	4300
9			Sample 6m W of Pin above old workings	"	4250
378110				"	4200
1			Sample 5m W of Pin above old workings	"	4150
2				"	4100
3			road at 4052E mark	"	4052
4				"	4000
5				"	3950
6				"	3900
7				"	3850
8				"	3800
9				"	4350
378120				"	4400

RESOLUTE RESOURCES LIMITED

329183

Project Name: Tasmania Prospect Name: Mathinna Tenement No.: 17/91

Sampler: Tim & Adrian Sample Type: Sub surface soil Sample Submission No.: KC9403

Note: New Area - New Page & New Sample Type - New Page Date: 21 / 11 / 94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
378121				5200	4450
2				"	4500
3				"	4550
4				"	4600
5				"	4650
6				"	4700
7				"	4750
8				"	4800
9				"	4850
373130			Alone	5000	4300
1				"	4250
2				"	4200
3				"	4150
4				"	4100
5				"	4050
6				"	4000
7				"	3950
8				"	3900
9				"	3850
373140				"	3800
1			6M EAST (WORKINGS.	5000	4350
2				"	4400
3				"	4450
4				"	4500
5				"	4550
6				"	4600
7				"	4650
8				"	4700
9				"	4750
378150				"	4800

RESOLUTE RESOURCES LIMITED 329184

Project Name: TASMANIA Prospect Name: MATHINNA Tenement No.: 17/91

Sampler: NIGEL + MICHAEL Sample Type: SURFACE SOILS Sample Submission No.: K09403

Note: New Area - New Page & New Sample Type - New Page Date: 22 / 11 / 94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
378151				5000	4850
2				4800	4300
3				"	4250
4				"	4200
5				"	4150
6				"	4100
7				"	4050
8				"	4000
9				"	3950
378160				"	3900
1				"	3850
2				"	3800
3				4800	4350
4				"	4400
5				"	4450
6				"	4500
7				"	4550
8				"	4600
9				"	4650
378170				"	4700
1				"	4750
2				"	4800
3			SAMPLE + PEG AT 4840E	"	4840
4				4600	4350
5				"	4250
6				"	4200
7				"	4150
8				"	4100
9				"	4050
378180				"	4000

RESOLUTE RESOURCES LIMITED 329185

Project Name: TASMANIA Prospect Name: MATHINNA Tenement No.: [redacted]

Sampler: JAMES, TIM, ADIAN Sample Type: SUBSURFACE SOIL Sample Submission No.: K09405

Note: New Area - New Page & New Sample Type - New Page Date: 28 / 11 / 94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
373301				10100	2900
2			Sample 4m S of Pit away from track	"	2850
3				"	2800
4				10100	3450
5				"	3500
6				"	3550
7				"	3600
8				"	3650
9				"	3700
378310				9900	3400
1				"	3350
2			Sample	"	3300
3				"	3250
4				"	3200
5				"	3150
6			Sample 4m E, out of gully	"	3100
7				9900	3050
8				"	3000
9				"	2950
373320				"	2900
1				"	2850
2				"	2800
3				"	3450
4				"	3500
5				"	3550
6				"	3600
7				"	3650
8				"	3700
9				"	3750
378330			CUT SHORT DUE TO CLIFF	"	3785

RESOLUTE RESOURCES LIMITED

329186

Project Name: TASMANIA Prospect Name: MATHINNA Tenement No.: [redacted]

Sampler: JAMES, TIM, ADRIAN Sample Type: SUBSURFACE SOIL Sample Submission No.: K0945

Note: New Area - New Page & New Sample Type - New Page Date: 28 / 11 / 94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
373331				9700	3400
2				"	3350
3				"	3300
4				"	3250
5			SAMPLE 4M NORTH DUE TO ROAD RUBBLE	"	3200
6			BELOW GRAVEL ROAD	"	3150
7				"	3100
8			SAMPLE 2M WEST BELOW ~~ROAD~~ GRAVEL ROAD NEXT TO COSTEAN	"	3050
9				"	3000
378340				"	2950
1				"	2900
2				"	2850
3				"	2800
4				"	3450
5				"	3500
6				"	3550
7				"	3600
8			SAMPLE 4M SOUTH ABOVE COSTEAN	"	3650
9				"	3700
373350				"	3750
1				"	3800
2				"	3850
3				"	3900
4				9500	3400
5				"	3350
6				"	3300
7				"	3250
8				"	3200
9				"	3150
378360				"	3100

RESOLUTE RESOURCES LIMITED

329187

Project Name: TASMANIA Prospect Name: MATHINNA Tenement No.: 17/91

Sampler: JAMES, TIM, ADRIAN Sample Type: SUBSURFACE SOIL Sample Submission No.: K09405

Note: New Area - New Page & New Sample Type - New Page Date: 29 / 11 / 94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
378361				9500	3050
2				"	3000
3				"	2950
4				"	2900
5				"	2850
6				"	2800
7				9500	3450
8			SAMPLE 7M NORTH ABOVE COSTEAN	"	3500
9				"	3550
378370				"	3600
1				"	3650
2			SAMPLE 3M SOUTH ABOVE COSTEAN	"	3700
3				"	3750
4			None	"	3800
5				"	3850
6				"	3900
7				"	3950
8			K09405	"	3975
9			start of 5200 Baseline K09406	7000	5250
378380				"	5300
1				"	5350
2				"	5400
3				"	5450
4			None	"	5500
5				"	5550
6				"	5600
7				6800	5250
8				"	5700
9				"	5350
378390				"	5400

RESOLUTE RESOURCES LIMITED

329188

Project Name: Tasmania Prospect Name: Mathinna Tenement No.: 17/91

Sampler: Jim + Adrian Sample Type: Subsurface soil Sample Submission No.: K9406

Note: New Area - New Page & New Sample Type - New Page Date: 29 / 4 / 94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
373391				6800	5450
2				"	5500
3				"	5550
4			None	"	5600
5				"	5650
6				"	5700
7				"	5750
8				"	5800
9				"	5850
373400			K9406 ↓	6600	5250
1				"	5300
2				"	5350
3				"	5400
4				"	~~5450~~
5				"	~~5500~~
6			None	"	~~5550~~
7				"	~~5600~~
8				"	~~5650~~
9				"	~~5700~~
373410				"	~~5750~~
1				"	5800
2				"	5850
3				6300	5250
4				"	5300
5				"	5350
6				"	5400
7				"	5450
8				"	5500
9				"	5550
378420				"	5600

RESOLUTE RESOURCES LIMITED 329189

Project Name: Tasmania Prospect Name: Mathinna Tenement No.: 17/91

Sampler: Tim + Adrian Sample Type: sub surface soil Sample Submission No.: K09426

Note: New Area - New Page & New Sample Type - New Page Date: 30 / 11 / 94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
373421				6300	5680
2				"	5700
3				"	5750
4				"	5800
5				"	5850
6				"	5800
7				"	5750
8				6000	5250
9				"	5300
378430				"	5350
1				"	5400
2				"	5450
3				"	5500
4				"	5550
5				"	5600
6				"	5650
7				"	5700
8			Sample 10m S of Pin away from road	"	5750
9			Sample 5m S of Pin	"	5800
378440			Sample 9m NW of Pin away from road	"	5850
1				"	5900
2				"	5950
3				"	6000
4				"	6050
5				5600	5250
6				"	5300
7				"	5350
8				"	5400
9				"	5450
378450				"	5500

RESOLUTE RESOURCES LIMITED

Project Name: Tasmania Prospect Name: Mathinna Tenement No.: ~~3289M~~

Sampler: Tim + Adrian Sample Type: Sub surface soil Sample Submission No.: K0946

Note: New Area - New Page & New Sample Type - New Page Date: 31/11/94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
373451			Sample 1.5m NE of Pin	5600	5550
2				"	5600
3				"	5650
4			Sample 9.5m SE of pin way from road	"	5700
5				"	5750
6				"	5800
7				"	5850
8			Sample 10m ESE of pin, out of creek	"	5900
9				"	5950
373460				"	6000
1				5200	5250
2			None	"	5300
3				"	5350
4				"	5400
5				"	5450
6				"	5500
7			6m E above creek	"	5550
8				"	5600
9				"	5650
373470				"	5700
1				"	5750
2				"	5800
3				"	5850
4				"	5900
5				"	5950
6				"	6000
7			4m S, below road	5000	5250
8				"	5300
9				"	5350
373480				"	5400

RESOLUTE RESOURCES LIMITED

Project Name: Tasmania Prospect Name: Mathinna Tenement No.: 3291 [illegible]

Sampler: Tim - Adrian Sample Type: Sub-Surfacesoil Sample Submission No.: K09406

Note: New Area - New Page & New Sample Type - New Page Date: 2/12/94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
373481				5000	5450
2			4m S away from workings	"	5500
3				"	5550
4				"	5600
5			7m E away from creek	"	5650
6			~~4m SSW out of gully~~	"	5700
7				"	5750
8				"	5800
9				"	5850
373490				"	5900
1			Dup	"	5950
2				"	6000
3				4800	5250
4				"	5300
5			4m SSW out of gully	"	5350
6			6m S a	"	5400
7			4m E surrounded by parallel costines	"	5450
8			6m SW away from costine	"	5500
9				"	5550
373500				"	5600
1			9m S away from old cast track	"	5650
2				"	5700
3				"	5750
4				"	5800
5				"	5850
6				"	5900
7				"	5950
8				"	6000
9				4600	5250
378510			12m NE across road	"	5300

RESOLUTE RESOURCES LIMITED

Project Name: Tasmania Prospect Name: Volunteer - MATHINNA Tenement No.: 329192

Sampler: Tim + Adrian Sample Type: Subsurface Soil Sample Submission No.: K0940

Note: New Area - New Page & New Sample Type - New Page Date: 15/12/94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
373901				7400	2000
2				7400	2250
3				"	2300
4				"	2350
5				"	2400
6				7300	2200
7				"	2150
8				"	2100
9				"	2050
378910				"	2000
1				7300	2250
2				"	2300
3			possible workings above	7050	2200
4				"	2150
5			VOLUNTEER	"	2102
6				"	2050
7			7m S over-road	"	2000
8				8100	4300
9			MATHINNA	"	4250
373920			Assumed C-HORIZON	"	4350
1				"	4400
2				8000	4300
3				"	4250
4				"	4350
5				"	4400
6				7900	4300
7				"	4250
8				"	4200
9				"	4150
378930				7900	4350

RESOLUTE RESOURCES LIMITED 329193

Project Name: Tasmania Prospect Name: Mathinna Tenement No.: T11

Sampler: Tim Ft TimH Sample Type: C-horizon soil Sample Submission No.: K9460

Note: New Area - New Page & New Sample Type - New Page Date: 17/12/94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
378931				7900	4400
2			8m ESE away from road	7800	4316
3				"	4350
4			4m N away from driveway	~~7800~~	~~4250~~ 4300
5			6.5m NNE away from driveway	"	~~4200~~ 4350
6				~~7700~~ 7700	~~4150~~ 4300
7				~~7800~~ "	~~4350~~ 4350
8				~~7700~~	~~4200~~ 4250
9			8m WNW away from grading	"	4206
378940				7700	4150
1				7700	4100
2			2m S to avoid house block	7600	4350
3				7500	4300
4				"	4350
5				"	4400
6				"	4250
7			5m N away from road	"	4200
8			15m N (road)	"	4150
9				7400	4300
378950			Possible grading	"	4350
1				"	4250
2				"	4150
3				"	4100
4				7300	4300
5				7300	4350
6				"	4250
7				"	4200
8				"	4150
9				"	4100
378960				7200	4300

RESOLUTE RESOURCES LIMITED

329194

Project Name: TASMANIA Prospect Name: BLACK BOY + MATHINNA RIDGE Tenement No.:

Sampler: GARY & TIM Sample Type: SURFACE SOIL Sample Submission No.: 109410

Note: New Area - New Page & New Sample Type - New Page Date: 18/12/94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
373961			Assumed C-HORIZON	~~7200~~	4250
2				"	4200
3			MATHINNA	"	4150
4				"	4100
5			BLACKBOY RIDGE	10500	9700
6				" "	9750
7				" "	9800
8				" "	9850
9				" "	9900
378970				" "	9950
1				" "	10000
2				" "	10050
3				" "	10100
4				" "	10150
5				" "	10200
6				" "	10250
7				" "	10300
8				" "	10350
9				" "	10400
378980				" "	9650
1			SAMPLE TAKEN 6M WEST (ROAD)	" "	9600
2				" "	9550
3				" "	9500
4				" "	9450
5				" "	9400
6				" "	9350
7				" "	9300
8				" "	9250
9				" "	9200
378990			SAMPLE TAKEN 6M SOUTH (SUSPECT NEAR CREEK)	" "	9150

RESOLUTE RESOURCES LIMITED

329165

Project Name: TASMANIA Prospect Name: MATHINA INFILL Tenement No.:

Sampler: GARY & ADRIAN Sample Type: ~~RC~~ HORIZON Sample Submission No.: K0946

Note: New Area - New Page & New Sample Type - New Page Date: 8/2/95

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
379021			MINOR QUARTS	4950	5100
2			TRACE QUARTS	5050	5075
3			MINOR QUARTS	"	5050
4			ABUN. QUARTS	"	5025
5			NOT SIEVED - TRACE QUARTS	"	5000
6			" " " "	5100	5050
7			TRACE QUARTS	"	5100
8				5200	5200
9				"	5150
379030				"	5100
1			MINOR QUARTS	7050	4200
2			ABUN "	"	4225
3			NOT SIEVED - ABUN QUARTS	"	4250
4			" " - TRACE "	"	4275
5			TRACE QUARTS	"	4300
6			" "	"	4325
7			ABUN "	"	4350
8			NOT SIEVED - MINOR QUARTS	"	4375
9			" " - " "	"	4400
379040				"	4175
1				"	4150
2				"	4125
3			NOT SIEVED	"	4100
4			MINOR QUARTS	"	4075
5			TRACE " - NOT SIEVED	"	4050
6			ABUN. QUARTS	6950	4200
7			TRACE "	"	4225
8			MINOR QUARTS	"	4250
9				"	4275
379050			MINOR QUARTS	"	4300

RESOLUTE RESOURCES LIMITED

329196

Project Name: TASMANIA Prospect Name: MATHINNA INFILL Tenement No.:

Sampler: GARY & ADRIAN Sample Type: E HORIZON Sample Submission No.: K09416

Note: New Area - New Page & New Sample Type - New Page Date: 8 / 2 / 95

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
379051			MINOR QUARTS	6950	4325
2			" "	"	4350
3			TRACE " — NOT SIEVED	"	4375
4			MINOR "	"	4400
5				"	4175
6				"	4150
7				"	4125
8			TRACE QUARTS	"	4100
9			NOT SIEVED	"	4075
379060			TRACE QUARTS	6900	4225
1			ABUN. "	"	4275
2			" "	"	4325
3			TRACE "	"	4375
4			MINOR "	"	4400
5			TRACE " — NOT SIEVED	"	4175
6				"	4125
7				"	4100
8				6850	4225
9			NOT SIEVED	"	4250
379070			ABUN. QUARTS	"	4275
1			TRACE "	"	4300
2			MINOR "	"	4325
3			" "	"	4350
4			TRACE "	"	4375
5			ABUN. "	"	4400
6			NOT SIEVED	"	4200
7				"	4175
8			ABUN QUARTS	"	4150
9			TRACE "	"	4125
379080			" "	6800	4275

RESOLUTE RESOURCES LIMITED

329197

Project Name: TASMANIA Prospect Name: MATHINNA INFILL Tenement No.:

Sampler: GARY & MIKE Sample Type: C-HORIZON Sample Submission No.: K0946

Note: New Area - New Page & New Sample Type - New Page Date: 9 / 2 / 95

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
379081			TRACE QUARTS	6800	4325
2			" "	"	4375
3			" "	"	4425
4			NOT SIEVED	"	4225
5				"	4175
6				6750	4300
7				"	4325
8			TRACE QUARTS	"	4350
9			MINOR "	"	4375
379090			" "	"	4400
1				"	4275
2			MINOR QUARTS	"	4250
3			TRACE "	"	4225
4			" "	"	4200
5				7150	4225
6				"	4250
7				"	4275
8				"	4300
9			TRACE QUARTS	"	4325
379100			" "	"	4350
1			MINOR "	"	4375
2				"	4200
3			TRACE QUARTS	"	4175
4			ABUN. "	"	4150
5			MINOR "	"	4125
6				"	4100
7			TRACE QUARTS	"	4075
8			QUARTS IN ROCK (ABUN.)	"	4050
9				"	4025
379110			MINOR QUARTS	"	4000

RESOLUTE RESOURCES LIMITED

329198

Project Name: TASMANIA Prospect Name: MATHINNA INFILL Tenement No.:

Sampler: GARY & ADRIAN Sample Type: C HORIZON Sample Submission No.: K09416

Note: New Area - New Page & New Sample Type - New Page Date: 10 / 2 / 95

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
379111				7200	4225
2			TRACE QUARTS	"	4275
3				"	4175
4			TRACE QUARTS	"	4125
5			MINOR "	"	4075
6			SHALLOW (BEDROCK)	7250	4250
7				"	4275
8				"	4300
9				"	4225
379120			TRACE QUARTS	"	4200
1			" "	"	4175
2				"	4150
3			MINOR QUARTS	"	4125
4				"	4100
5				6700	4325
6				"	4375
7			MINOR QUARTS	"	4275
8				"	4225
9				6650	4350
379130				"	4375
1				"	4400
2				"	4425
3				"	4325
4				"	4300
5			ABUN. QUARTS	"	4275
6			TRACE " (SHALLOW - BEDROCK)	"	4250
7			MINOR QUARTS	"	4225
8				6600	4375
9				"	4425
379140				"	4325

RESOLUTE RESOURCES LIMITED 329199

Project Name: TASMANIA Prospect Name: MATHINNA INFILL Tenement No.:

Sampler: GARY & MIKE Sample Type: C-HORIZON Sample Submission No.: K09416

Note: New Area - New Page & New Sample Type - New Page Date: 13 / 2 / 95

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
379141				6600	4275
2				7300	4225
3				"	4175
4				"	4125
5				"	4285
6			10m SOUTH WEST (ROAD)	"	4325
7			TRACE QUARTS	6550	4275
8				"	4300
9				"	4325
379150				"	4350
1				"	4375
2			TRACE QUARTS	"	4400
3			MINOR "	"	4425
4				"	4450
5				6500	4325
6				"	4375
7			TRACE QUARTS K09416	"	4425
8			2m SOUTH OF CLOTHS LINE (SHALLOW - BEDROCK) (TRACE QUARTZ) K09417	7200	4050
9			2m NORTH of FRONT RIGHT CORNER BOUNDRY. (TRACE QUARTZ)	"	4020
379160			ABUN. QUARTZ	7250	4075
1			2m EAST OF PIN MINOR QUARTZ	"	4050
2			7m NORTH OF PIN - NOT SIEVED	"	4025
3			TRACE QUARTS.	7300	4100
4				"	4075
5				"	4050
6				"	4025
7				7350	4300
8				"	4275
9				"	4250
379170				"	4225

RESOLUTE RESOURCES LIMITED

329200

Project Name: TASMANIA Prospect Name: MATHINNA INFILL Tenement No.:

Sampler: GARY & ADRIAN Sample Type: C-HORIZON Sample Submission No.: K09417

Note: New Area - New Page & New Sample Type - New Page Date: 14/2/95

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
379171				7350	4200
2			TRACE QUARTZ	"	4175
3				"	4150
4			3m NORTH EAST (ROAD)	"	4125
5				"	4100
6			TRACE QUARTZ	"	4075
7			" "	"	4050
8			MINOR QUARTZ	"	4025
9			TRACE " (PIN 2m WEST - SAMPLE TAKEN 5m NORTH WEST of PIN ROAD)	"	4325
379180				"	4350
1			MINOR QUARTZ	"	4375
2			TRACE QUARTZ	7300	4375
3			" "	7250	4325
4			" "	"	4350
5			" "	7200	4325
6			" "	"	4350
7			MINOR QUARTZ	"	4375
8			PIN 1.5m EAST - (SAMPLE 9m SOUTH WEST of PIN)	7400	4325
9			TRACE QUARTZ	"	4375
379190				"	4275
1				"	4225
2			TRACE QUARTZ	"	4175
3			" "	"	4125
4			MINOR "	"	4075
5			TRACE "	"	4050
6			" "	"	4025
7			" "	7450	4300
8				"	4325
9			MINOR QUARTZ	"	4350
379200			" "	"	4375

RESOLUTE RESOURCES LIMITED

329201

Project Name: TASMANIA Prospect Name: MATHINNA INFILL Tenement No.:

Sampler: GARY & ADRIAN Sample Type: C-HORIZON Sample Submission No.: 209417

Note: New Area - New Page & New Sample Type - New Page Date: 16/2/95

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
379201				7450	4400
2				"	4275
3			MINOR QUARTZ (PIN 2m WEST - ROAD SAMPLE 4m SOUTH EAST OF PIN)	"	4250
4				"	4225
5				"	4200
6			SAMPLE & PIN 10m SOUTH (DRIVEWAY)	"	4175
7				"	4150
8				"	4125
9				"	4100
379210			TRACE QUARTZ. PIN 6m ~~SOUTH~~ EAST - (SAMPLE-CORRECT CO-OD.)	"	4075
1			ABUN QUARTZ - NOT SIEVED	"	4050
2			SAMPLE TAKEN 3M NORTH - (ROAD)	"	4025
3			TRACE QUARTZ	7500	4325
4			MINOR " None	"	4375
5			TRACE "	"	4425
6			ABUN. " - (SAMPLE TAKEN 3m EAST (ROAD))	"	4275
7			SHALLOW - (BEDROCK)	"	4225
8			ABUN QUARTZ	"	4175
9			" "	"	4150
379220			PIN & SAMPLE 5m NORTH - NOT SIEVED	"	4125
1			PIN & SAMPLE 10M NORTH - TRACE QUARTZ	"	4100
2			SAMPLE 15M SOUTH OF FENCE - " "	"	4075
3			SAMPLE 6m EAST OF FENCE - " "	"	4050
4				7550	4300
5			MINOR QUARTZ	"	4325
6				"	4350
7			TRACE QUARTZ	"	4375
8				"	4400
9			PIN SIDE OF ROAD - TRACE QUARTZ	"	4420
379230			ABUN. QUARTZ	"	4275

RESOLUTE RESOURCES LIMITED

329202

Project Name: TASMANIA Prospect Name: MAHINNA INFILL Tenement No.:

Sampler: GARY & MIKE Sample Type: C-HORIZON Sample Submission No.: KQ9417

Note: New Area - New Page & New Sample Type - New Page Date: 17/2/95

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
379231			TRACE QUARTZ	7550	4250
2				4	4225
3				4	4200
4				4	4175
5			SAMPLE 7m WEST of FENCE - TRACE QUARTZ	4	4150
6			TRACE QUARTZ	11	4425
7			MINOR QUARTZ	11	4106
8				11	4075
9			MINOR QUARTZ.	7600	4325
379240			PIN 2m SOUTH - (ROAD)	11	4375
1			MINOR QUARTZ	11	4400
2			"	11	4425
3			ABUN. QUARTZ	11	4450
4				11	4275
5			MINOR QUARTZ	11	4225
6			" "	11	4175
7			ABUN "	11	4125
8			TRACE "	11	4100
9			MINOR "	11	4075
379250				7650	4300
1				11	4325
2				11	4350
3			TRACE QUARTZ	11	4375
4				11	4400
5			ABUN. QUARTZ	11	4425
6			MINOR "	"	4450
7				11	4275
8			ABUN. QUARTZ	11	4250
9				11	4225
379260				11	4200

RESOLUTE RESOURCES LIMITED

329203

Project Name: TASMANIA Prospect Name: MATHINNA INFILL Tenement No.:

Sampler: GARY & ADRIAN Sample Type: C-HORIZON Sample Submission No.: K09417

Note: New Area - New Page & New Sample Type - New Page Date: 20/2/95

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
379261			TRACE QUARTZ	7650	4175
2				"	4150
3				"	4125
4				"	4100
5			MINOR QUARTZ - (NOT SIEVED)	"	4075
6			SHALLOW BEDROCK	7700	4325
7			MINOR QUARTZ	"	4375
8			ABUN "	"	4400
9			" " - (4m NORTH EAST - PINE TREE)	"	4425
379270			MINOR QUARTZ K09417	"	4450
1			TRACE " K09418	"	4275
2			MINOR " (SHALLOW - BEDROCK)	"	4225
3			TRACE QUARTZ	"	4175
4				"	4125
5			MINOR QUARTZ	"	4080
6			ABUN. " - (5m SOUTH - DISTURBANCE)	7750	4300
7				"	4325
8			TRACE QUARTZ - (2m SOUTH - ROAD)	"	4350
9			" " - (6m SOUTH - ROAD)	"	4375
379280				"	4400
1			ABUN QUARTZ	"	4425
2			" "	"	4275
3			MINOR " - (3m WEST - DISTURBANCE)	"	4250
4			" "	"	4220
5			TRACE "	"	4200
6				"	4175
7			TRACE QUARTZ - (5m SOUTH - MULLOCK HEAP)	"	4150
8				"	4125
9			6m NORTH - (BUILDING)	"	4100
379290				7750	4075

INSIDE COFFEE SHOP

RESOLUTE RESOURCES LIMITED

Project Name: TASMANIA Prospect Name: MATHINNA INFILL Tenement No.: 32020

Sampler: GARY & MIKE Sample Type: C-HORIZON Sample Submission No.: K09418

Note: New Area - New Page & New Sample Type - New Page Date: 21/2/95

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
379291			TRACE QUARTZ	7800	4325
2			MINOR " - (SHALLOW)	"	4375
3				"	4400
4			TRACE QUARTZ - (3m NORTH EAST - SUSPECT - OLD SAWMILL SITE)	"	4275
5			" " - (3m SOUTH EAST - ROAD SHALLOW - VERY HARD)	"	4225
6			" "	"	4175
7			3m WEST of PIN	"	4128
8			MINOR QUARTZ	"	4103
9			TRACE "	7850	4300
379300			MINOR "	"	4325
1			ABUN. "	"	4350
2			MINOR "	"	4375
3				"	4400
4			TRACE QUARTZ	"	4275
5				"	4250
6			MINOR QUARTZ. (PIN & SAMPLE 5m NORTH ROAD)	"	4225
7				"	4200
8			ABUN QUARTZ (PIN & SAMPLE 6m NORTH ROAD)	"	4175
9			NOT SIEVED	"	4150
379310			MINOR QUARTZ	"	4125
1				7900	4325
2			SAMPLE AT FENCE LINE	"	4375
3			ABUN. QUARTZ	"	4400
4			" "	"	4425
5			(SHALLOW - BEDROCK)	"	4275
6				"	4225
7			ABUN. QUARTZ	"	4175
8			TRACE "	"	4125
9				7950	4300
379320				"	4325

RESOLUTE RESOURCES LIMITED 329205

Project Name: TASMANIA Prospect Name: MATHINNA INFILL Tenement No.:

Sampler: GARY & ADRIAN Sample Type: C-HORIZON Sample Submission No.: K09418

Note: New Area - New Page & New Sample Type - New Page Date: 22/2/95

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
379321				7950	4350
2			ABUN. QUARTZ.	"	4375
3			MINOR "	"	4400
4			TRACE "	"	4275
5				"	4250
6			TRACE QUARTZ	"	4225
7			MINOR "	"	4200
8				"	4175
9			TRACE QUARTZ. None	"	4150
379330				8000	4325
* 1			MINOR QUARTZ	"	4375
2				"	4400
3				"	4425
4			TRACE QUARTZ	"	4275
5				"	4250
6			TRACE QUARTZ - (15m SOUTH - VEGE GARDEN)	"	4225
7			5m SOUTH - MACHINERY - (NOT SIEVED)	"	4200
8			5m SOUTH - TREE	"	4180
9			SUSPECT ~~and~~ NEAR PATH - ABUN QUARTZ.	"	4150
379340			MINOR QUARTZ	8050	4300
1				"	4325
2			ABUN QUARTZ	"	4350
3			TRACE "	"	4275
4				"	4250
5			MINOR QUARTZ	"	4225
6			ABUN QUARTZ - (PIN & SAMPLE 10m SOUTH)	"	4200
7			ABUN. QUARTZ	"	4175
8			NOT SIEVED	"	4153
9			TRACE QUARTZ	8100	4325
379350				"	4375

RESOLUTE RESOURCES LIMITED

329206

Project Name: TASMANIA Prospect Name: MATHINNA INFILL Tenement No.:

Sampler: GARY & MIKE Sample Type: C-HORIZON Sample Submission No.: K0941B

Note: New Area - New Page & New Sample Type - New Page Date: 23 / 2 / 95

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
379351			MINOR QUARTZ	8100	4275
2			ABUN. "	"	4225
3			TRACE " - (12m SOUTH - NEXT TO FENCE)	"	4200
4			NOT SIEVED - (PIN 7m SOUTH - NEXT TO FENCE. SAMPLE 4m SOUTH EAST - PIPE)	"	4175
5				8150	4300
6			TRACE QUARTZ	"	4325
7			" "	"	4275
8			" "	"	4250
9			MINOR " None	"	4225
379360				"	4200
1			TRACE QUARTZ.	"	4175
2			" "	8200	4300
3			ABUN. "	"	4325
4				"	4275
5			TRACE "	"	4250
6			ABUN " - (5m SOUTH - YARD)	"	4225
7			(END OF MATHINNA INFILL IN TOWNSHIP)	"	4200
8			TRACE QUARTZ - (START OF (CITY OF HOBART))	6650	3650
9			" " - (4m NORTH - OLD WORKINGS)	"	3675
379370			" " - (5m SOUTH - SHAFT & MULLOCK)	"	3700
1			" "	"	3725
2			MINOR "	"	3750
3			8m WEST - (CUTTING ABOVE PIN)	6750	3750
4				"	3725
5				"	3700
6			SUSPECT - OLD WORKINGS ABOVE	"	3675
7			ABUN. QUARTZ.	"	3650
8					
9					
379380					

RESOLUTE RESOURCES LIMITED 329207

Project Name: TASMANIA Prospect Name: ENTERED Tenement No.:

Sampler: GARY Sample Type: BLEGS. Sample Submission No.: KO9421

Note: New Area - New Page & New Sample Type - New Page Date: 2/5/95

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
379441			BLEGS - BOOK No 361-A PAGE 27	5403950	565500
2			"	5404400	565100
3			"	5405200	565320
4			START - CHURCH HILL MARKER - KO9421 DEEP - MN. QUARTZ / SLATE 9/5/95	6450	4350
5			M.G. - MN QUARTZ / SLATE	"	4375
6			SHG - SLATE	"	4400
7			" - "	"	4425
8			DEEP - MN QUARTZ / CLAY	"	4458
9			" - TR. QUARTZ / SLATE	"	4475
379450			" - QUARTZ / CLAY	"	4500
1			" - CLAY	"	4525
2			" - MN QUARTZ / CLAY	"	4545
3			MED. - TR. QUARTZ / SLATE / CLAY	6400	4425
4			" - SLATE / CLAY	"	4467
5			DEEP - SLATE / CLAY	"	4525
6			" - TR QUARTZ / CLAY	"	4575
7			" - MN QUARTZ / CLAY	6350	4600
8			" - AG QUARTZ / MN SLATE / CLAY	"	4575
9			" - AG QUARTZ / CLAY	"	4550
379460			MED. - MN QUARTZ / SLATE SAMPLE CAKE OF ROAD (DRY. MUD)	"	4530
1			" - AG SLATE	"	4500
2			DEEP - MN SLATE / CLAY	"	4475
3			" - AG SLATE (RED IN COLOUR) CLAY.	"	4450
4			MED. - AG QUARTZ / CLAY	"	4425
5			" - MN SLATE / CLAY	6300	4475
6			" - AG QUARTZ / CLAY	"	4525
7			" - AG QUARTZ / MN SLATE	"	4575
8			DEEP - MN QUARTZ / CLAY	"	4625
9			" - AG QUARTZ / CLAY	"	4650
379470			MED. - TR QUARTZ / SLATE	6250	4475

RESOLUTE RESOURCES LIMITED

329208

Project Name: TASMANIA Prospect Name: MATHINNA AUGER Tenement No.:

Sampler: GARY Sample Type: C-HORIZON. ENTERED Sample Submission No.: K09421

Note: New Area - New Page & New Sample Type - New Page Date: 10 / 5 / 95

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
379471			MED - SLATE / CLAY	6250	4500
2			" - SLATE	"	4525
3			" - SLATE (SUBJECT - DISTURBANCE)	"	4550
4			" - MN QUARTZ / SLATE	"	4575
5			" - AB SLATE	"	4600
6			" - AB QUARTZ / CLAY	"	4625
7			" - " " "	"	4650
8			DEEP - " " "	"	4675
9			" - " " "	6200	4725
379480			" - SOIL	"	4700
1			MED - TR. QUARTZ / TR SLATE / CLAY	"	4675
2			SHALLOW - AB SLATE	"	4625
3			DEEP - CLAY (SUBJECT - DISTURBANCE)	"	4575
4			" - " " "	"	4550
5			" - CLAY (BELOW MULLOCK)	"	4525
6			MED. - MN QUARTZ / SLATE	"	4500
7	2	0	BLEGS - BOOK Nº 361 - A Pg. 30 K09421	5389250	564925
8			BLEGS - " " " K09422	5387910	571100
9			"	5387990	571050
379490			"	5388050	571100
1			"	5388550	571380
2			"	5389120	570280
3			"	5389600	569560
4			"	5389950	568660
5			"	5389900	568600
6			"	5389750	568720
7			" Page 31	5399910	566480
8			"	5399800	566260
9			"	5398920	566060
379500			" CONT. 380636.	5385850	570720

RESOLUTE RESOURCES LIMITED 329209

Project Name: MATH/MANG Prospect Name: MATHINNA Tenement No.: 17/91 22/92

Sampler: Grant Sample Type: Rock / C-horizon Sample Submission No.:

Note: New Area - New Page & New Sample Type - New Page Date: / /

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
379561	FT	0.01 15	RK buck w s hmt wall rock.	6400	4900
2	FT	0.01 170	RK Sy mnst bx buck.	6400	4900
3	FT	0.01 20	RK bxd buck w fine cct hmt vnt'	6600	4850
4	FT	0.01 20	RK buck (asstd)	6400	5000
5	FT	0.02 20	RK file stock in bxd slt'	6800	4350
6	FT	< 10	RK bxd buck w some hmt vnt'	6700	4250
7	FT	0.02 80	RK file stock in s.id msv slt	7100	4725
8	FT	0.02 40	RK "	7100	4700
9	FT	0.19 40	RK buck v hmc pat'	7100	4700
379570	FT	0.01 <	RK as for 379566	7100	4700
1	FT	0.08 680	RK Sy bxd + hmc.	7100	4700
2	MC	0.01 130	RK gn slt w file qtz carb vn		
3	MC	0.45 470	RK wk buck in gn sed slt		
4	MC	[illegible] 5500	RK as for 379573.		
5	MC Coo	[illegible] 1.20	RK bld gy qtz/sh w asp.		
6	MC	[illegible] 560	RK Ross stock slt		
7	C		C - HORIZON SOIL	5600	4100
8	C		C "	5700	4350
9	C		C "	6400	4900
379580	C		C "	6400	4450
1	C		C "	6400	5000
2	C		C "	6500	4350
3	C		C "	6500	4400
4	C		C "	6500	4450
5	C		C "	6500	4500
6	C		C "	6700	4250
7	C		C "	6700	4300
8	C		C "	6700	4350
9	C		C "	6700	4400
379590	C		C "	6800	4250

Sub dump 5mm

~~Old Boys Dump~~

Vol Cons Dump.

K9407A

K9407B

Dom

Dom

K? / 21 DEC 94

RESOLUTE RESOURCES LIMITED

329210
17/91

Project Name: MATHINNA/MANGANA Prospect Name: MATHINNA Tenement No.: 22/92

Sampler: Grant Sample Type: Sample Submission No.:

Note: New Area - New Page & New Sample Type - New Page Date: / /

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
379591	C		C - HORIZON SOIL	7100	4700
2	C		"	7400	4200
3	C		"	7600	4165
4	C		"	7600	4200
5	C		"	7600	4250
6	C		"	7600	4300
7	C		"	6600	4850
8	ORE	0.07 <	RK lmc buck w 2% as D. Telegraph?	5140	4550
9	ORE	0.05 50	RK hmt bxd buck Telegraph? Ore adit dump	5160	4550
379600	FT	0.03 90	RK fib gt in slt K9409	5200	4525
1	FT	0.09 170	RK	5100	4575
2	FT	0.16 30	RK buck + fibre in slt. mag.	5100	4575
3	FT	0.05 40	RK	5100	4575
4	MC	0.25 250	RK bxd lode cap Shaft Dump.	5075	4650
5	MC	0.27 150	RK hmt buck. Shaft Dump	5075	4650
6	MC	0.47 280	RK. hmt buck Shaft Dump	5000	4610
7	CH/UG	.	RK Jubilee Channel Samples		
8	"	.	"		
9	"	.	"		
379610	"	.	"		
1	"	.	"		
2	"	.	"		
3	"	.	"		
4	"	.	"		
5	"	.	"		
6	"	.	"		
7	"	.	"		
8	"	.	"		
9	"	.	"		
379620	"		"		

21 DEC 94

K?

Done

RESOLUTE RESOURCES LIMITED

329211

Project Name: TASMANIA Prospect Name: MATHINNA INFILL Tenement No.:

Sampler: SHAURY Sample Type: SUBSURFACE SOILS Sample Submission No. K0940

Note: New Area - New Page & New Sample Type - New Page Date: 14/12/94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
379801				6800	3275
2			7M S/EAST (COSTEAN)	"	3325
3				"	3375
4				"	3425
5				"	3475
6				"	3525
7				"	3575
8				"	3675
9				6700	3725
379810			BELOW OLD WORKINGS - BUT GOOD SAMPLE	"	3675
1				"	3625
2			5M WEST (TRACK)	"	3575
3			~~5M WEST (COSTEAN)~~	"	3525
4			5M WEST (COSTEAN)	"	3475
5				"	3425
6				"	3375
7				6600	3225
8				"	3275
9			5M EAST AWAY FROM ROAD	6600	3475
379820				"	3525
1				"	3575
2				6500	3475
3				"	3525
4			10M NORTH, (WORKINGS)	"	3575
5			15M WEST (WORKINGS)	"	3625
6				"	3675
7			6M WEST	6400	3625
8			10M WEST (WORKINGS)	"	3575
9			5M WEST "	"	3525
379830			10M SOUTH (ABOVE TRACK)	6500	3525

RESOLUTE RESOURCES LIMITED

329212

Project Name: TASMANIA Prospect Name: MATHINNA + MANGANA INFILL Tenement No.:

Sampler: SITAWRY Sample Type: SUBSURFACE SOILS Sample Submission No.: K09410

Note: New Area - New Page & New Sample Type - New Page Date: 16/12/94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
379831			16M NORTH (SHAFT TO SOUTH)	6300	3575
2				6200	3575
3				"	3525
4				"	3475
5			10M SOUTH (COSTEAN)	6300	4025
6				"	3975
7			16M SOUTH (COSTEAN)	6400	4025
8				"	4075
9			CONTINUED FROM 380600 (MATHINNA INFILL)	4900	5025
379840			TAKEN 5m W (ROAD), ON FLAT BTW RIDGES	" "	4975
1			TAKEN 4m SE (GULLY)	5000	4975
2				" "	5025
3				" "	5075
4				" "	5125
5				" "	5175
6				" "	5225
7				5100	5225
8				" "	5175
9				" "	5125
379850				" "	5075
1			TAKEN 6m N (ON ALLUVIUM FLAT, CREEK 2m W)	" "	5025
2			TAKEN ON ALLUVIUM FLAT, CREEK 15m E	5200	5025
3				" "	5075
4				" "	5125
5				" "	5175
6				" "	5225
7				6100	3775
8			END OF MATHINNA INFILL	" "	3825
9				10300	9700
379860			SAMPLE TAKEN 10 M WEST (SCREE)	" "	9750

None

MATHINNA

MANGANA

RESOLUTE RESOURCES LIMITED

329213

Project Name: TASMANIA Prospect Name: VOLUNTEER Tenement No.:

Sampler: JAMES + MIKE Sample Type: SUBSURFACE SOIL + C HORIZON Sample Submission No.: KC9410 KC9412

Note: New Area - New Page & New Sample Type - New Page Date: 15 / 12 / 94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
379981			DEEP AUGER SAMPLE	6600	4400
2			MEDIUM DEPTH (SLATE)	" "	4450
3			DEEP AUGER SAMPLE	6400	4400
4			MEDIUM DEPTH (VERY ROCKY) SUSPECT	" "	4450
5			SUSPECT (MEDIUM DEPTH SLATE)	" "	4500
6				" "	4550
7				6300	4500
8				" "	4550
9				" "	4600
379990				6200	4600
1				" "	4650
2				5800	5150
3				" "	5200
4				" "	5250
5				" "	5300
6				" "	5350
7				" "	5400
8				" "	5450
9				" "	5500
380000			CONTINUED ON 376302 ↑ KC9412	" "	5550
1			CONTINUED FROM 377700 ↓ KC9410	8100	2100
2				"	2250
3				"	2300
4				"	2350
5				"	2400
6			SAMPLE 5M WEST AWAY FROM TRACK	"	2450
7			" 10M SOUTH-WEST AWAY FROM ROAD	"	2500
8				"	2550
9			SAMPLE 15M SOUTH SURROUNDED BY SHAFTS + TAILINGS	"	2600
380010				8300	2200

Above

f c HORIZON

RESOLUTE RESOURCES LIMITED

329214

Project Name: Tasmania Prospect Name: ~~Boobyalla~~ Black Boys Ridge + MATHINNA Tenement No.:

Sampler: ~~TIM F~~ TimF+TimH Sample Type: Subsurface soil + C HORIZON Sample Submission No.: K09411

Note: New Area - New Page & New Sample Type - New Page Date: ~~20~~ 21 / ~~27~~ 12 94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
379921				11200	9950
2			5m WNW (road)	"	10000
3				"	10050
4				"	10100
5				"	10150
6				"	10200
7				11600	9750
8				"	9800
9				"	9850
379930				"	9900
1				"	9950
2				"	10000
3				"	10050
4				"	10100
5				"	10150
6				"	10200
7			MATHINNA C-HORIZON	7300	4550
8			MATHINNA	" "	4600
9				" "	4650
379940				" "	4700
1				7100	4600
2				" "	4650
3				" "	4750
4				" "	4800
5			15m WEST (PIN ON MULLOCK HEAP)	" "	4850
6			SUSPECT (BELOW MULLOCK HEAP)	" "	4900
7				6700	4800
8				" "	4850
9				" "	4900
379950				" "	4950

C-HORIZON

MANGANA

RESOLUTE RESOURCES LIMITED

329215

Project Name: TASMANIA Prospect Name: MATHINNA Tenement No.:

Sampler: GARY & GRANT Sample Type: C-HORIZON Sample Submission No.: K09411 K09412

Note: New Area - New Page & New Sample Type - New Page Date: 22 / 12 / 94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
379951				6700	5000
2				" "	5050
3				" "	5100
4				" "	5150
5			K09411	" "	5200
6			K09412	7100	4050
7			↓	" "	4100
8				" "	4150
9			SUSPECT - BETWEEN TRACKS	" "	4200
379960				" "	4250
1			JUST ABOVE ROAD.	" "	4300
2				7000	4100
3			10 m EAST (ROCKY - MEDIUM DEPTH) ROAD AT AN	" "	4150
4				" "	4200
5				" "	4250
6				" "	4300
7			SUSPECT - (ROCKY MEDIUM DEPTH, LOAMY)	6900	4150
8				" "	4200
9			8 m WEST (OLD TRACK AT PIN)	" "	4250
379970				" "	4300
1			14 m WEST (PIN AT ROAD)	" "	4350
2				6800	4150
3				" "	4200
4				" "	4300
5				" "	4400
6			SUSPECT - (EARTHWORKS - WHITE CLAY) EDGE OF SAND DUMP.	" "	4450
7				6700	4200
8				6600	4250
9				" "	4300
379980				" "	4350

RESOLUTE RESOURCES LIMITED 329210

Project Name: TASMANIA Prospect Name: VOLUNTEER Tenement No.:

Sampler: JAMES + MIKE Sample Type: SUBSURFACE SOIL Sample Submission No.: KOMLO

Note: New Area - New Page & New Sample Type - New Page Date: 15 / 12 / 94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
330011				8300	2250
2			SAMPLE 15M WEST OUT OF DOZED AREA	"	2300
3				"	2350
4			SAMPLE 10M SOUTH ABOVE ROAD	"	2400
5			" 5M NORTH-EAST DOZED AREA SUBJECT	"	2450
6				"	2500
7				"	2550
8			MATHINNA INFILL	4900	4475
9				"	4525
330020				"	4575
1				"	4625
2			SAMPLE 4M SOUTH-WEST ABOVE COSTEAN	"	4675
3			JUST ABOVE ADIT	"	4725
4				"	4775
5			None	"	4825
6				"	4875
7				5000	4875
8			SAMPLE 2M WEST ABOVE COSTEAN	"	4825
9				"	4775
380030				"	4725
1				"	4675
2			SAMPLE 4M EAST OFF DOZED TRACK	"	4625
3				"	4575
4				"	4525
5				"	4475
6				5100	4425
7			SAMPLE 4M ABOVE COSTEAN	"	4475
8				"	4525
9				"	4575
380040			SAMPLE 10M EAST TO SIDE OF COSTEAN	"	4625

RESOLUTE RESOURCES LIMITED 329217

Project Name: TASMANIA Prospect Name: MATHINNA INFILL Tenement No.:

Sampler: JAMES + MIKE Sample Type: SUBSURFACE SOIL Sample Submission No.: K0941O

Note: New Area - New Page & New Sample Type - New Page Date: 16 / 12 / 94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
380041				5100	4675
2				"	4725
3				"	4775
4				"	4825
5				"	4875
6				5200	4875
7				"	4825
8				"	4775
9				"	4725
380050			SAMPLE 7M WEST AWAY FROM ROAD	"	4675
1				"	4625
2				"	4575
3			SAMPLE 7M SOUTH PIN NEXT TO ADIT	"	4525
4			" 3M SOUTH PIN JUST ABOVE CREEK	"	4475
5				"	4425
6				5300	4425
7			SAMPLE 10M NORTH-WEST AWAY FROM ROAD	"	4475
8			" 22M NORTH CLEAR OF ADIT TAILINGS	"	4525
9				"	4575
380060				9700	3325
1				"	3375
2				"	3425
3				"	3475
4				"	3525
5				"	3575
6				"	3625
7				"	3675
8				"	3725
9				"	3775
380070			K0941O	"	3825

RESOLUTE RESOURCES LIMITED 329218

Project Name: TASMANIA Prospect Name: MATHINNA Tenement No.:

Sampler: JAMES + MIKE Sample Type: SUBSURFACE SOIL Sample Submission No: C09410

Note: New Area - New Page & New Sample Type - New Page Date: 19 / 12 / 94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
380071			NOT SENT 19.12.94	9700	3875
2			NOT SENT 19.12.94	9800	3825
3			↑	"	3775
4				"	3725
5				"	3675
6			SAMPLE 7M SOUTH ABOVE COSTEAN	"	3625
7				"	3575
8				"	3525
9			SAMPLE 5M SOUTH ABOVE COSTEAN	"	3475
380080			" 8M WEST ABOVE CUT	"	3425
1				"	3375
2			Done	"	3325
3				"	3275
4				9900	3425
5				"	3475
6				"	3525
7			↓	"	3575
8			NOT SENT 19.12.94	"	3625
9			NOT SENT 19.12.94	"	3675
380090			NOT SENT 19.12.94	"	3725
1			NOT SENT 19.12.94	"	3775
2			NOT SENT	10000	3725
3			NOT SENT	"	3675
4			NOT SENT	"	3625
5			NOT SENT	"	3575
6			NOT SENT	"	3525
7				"	3475
8			SAMPLE 3M WEST ABOVE COSTEAN	"	3425
9			NOT USED		
380100			NOT USED		

RESOLUTE RESOURCES LIMITED

329219

Project Name: TASMANIA Prospect Name: MATHINNA Tenement No.:

Sampler: GARR + GRANT Sample Type: SUBSURFACE SOIL Sample Submission No.: 109410

Note: New Area - New Page & New Sample Type - New Page Date: 19 / 12 / 94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
380101			NOT USED		
2				9600	3025
3				9600	2975
4				9500	2825
5				"	2775
6				"	3025
7				"	3075
8				"	3125
9				"	3225
380110				"	3275
1				9400	3225
2				"	3275
3				"	3425
4				"	3475
5				"	3525
6				"	3575
7				"	3625
8				"	3675
9				"	3725
380120				"	3775
1				"	3825
2				"	3875
3			NOT SENT 19.12.94	"	3925
4				9500	3875
5				"	3825
6				"	3775
7				"	3725
8				"	3675
9				"	3625
380130				"	3575

Project Name: TASMANIA Prospect Name: MANGANA/MATHINNA Tenement No.: 329220

Sampler: GARRY + GRANT Sample Type: SUBSURFACE SOIL Sample Submission No.: K09410 K09411

Note: New Area - New Page & New Sample Type - New Page Date: 19 / 12 / 94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
380131				9500	3525
2				"	3475
3				"	3425
4				9600	3375
5				"	3425
6				"	3475
7				"	3525
8				"	3575
9				"	3625
380140				"	3675
1				"	3725
2				"	3775
3				"	3825
4			NOT SENT 19.12.94	"	3875
5			BLACKBOY RIDGE 20-12-94	10900	9700
6			K09411	" "	9650
7				" "	9600
8				" "	9550
9				" "	9500
380150			SAMPLE TAKEN 15 M WEST, NOT SUITABLE AT PIN (BETWEEN CREEK & ROAD)	" "	9450
1				" "	9400
2				" "	9350
3				" "	9300
4				" "	9250
5				" "	9200
6				11300	9700
7				" "	9650
8				" "	9600
9				" "	9550
380160			SAMPLE TAKEN 4 M WEST, BELOW TREE (ROAD ABOVE PIN)	" "	9500

RESOLUTE RESOURCES LIMITED 329221

ame: TASMANIA Prospect Name: JUBILEE INFILL Tenement No.:

GARY & MIKE Sample Type: SUBSURFACE SOIL Sample Submission No.: K09415

Note: New Area - New Page & New Sample Type - New Page Date: 22 / 1 / 95

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
380221				4850	4800
2				4750	4500
3				"	4525
4				"	4550
5				"	4575
6				"	4600
7				"	4625
8				"	4650
9				"	4675
380230				"	4700
1				"	4725
2				"	4750
3				"	4775
4				"	4800
5				"	4825
6				"	4850
7				4650	4575
8				"	4600
9				"	4625
380240				"	4650
1				"	4675
2				"	4700
3				"	4725
4				"	4750
5				"	4775
6				"	4800
7				4550	4675
8	MATHINNA A-HORIZON		5m SOUTH - EARTHWORKS.	"	4700
9	MATHINNA B-HORIZON		ab. quartz. Augered	7000	4325
380250			mn quartz	"	4350

K09415

K09416

RESOLUTE RESOURCES LIMITED

329222

Project Name: TASMANIA Prospect Name: INFILL MATHINNA Tenement No.:

Sampler: GARY & MIKE Sample Type: C- HORIZON Sample Submission No.: K09416

Note: New Area - New Page & New Sample Type - New Page Date: 7 / 2 / 95

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
330251			quartz	7000	4375
2			quartz	"	4275
3				"	4225
4				"	4175
5				"	4125
6			s:d slt	"	4075
7				7100	4025
8				"	4075
9				"	4125
330260			None	"	4175
1				"	4225
2				"	4275
3				"	4325
4				"	4350
5	MATHINNA C-HORIZON			"	4375
6	MATHINNA A-HORIZON		NOT SENT - ALLUVIAL	~~4400~~	~~4400~~
7	CHORIZON		ABUN. QUARTS	4550	4800
8	↓		MINOR "	"	4825
9	↓		NOT SIEVED	"	4850
380270			NOT SIEVED	"	4875
1				"	4900
2				"	4925
3				4450	4925
4	CHORIZON		TRACE QUARTS	"	4900
5			MINOR "	"	4875
6			TRACE "	"	4850
7				"	4825
8			TRACE QUARTS	"	4800
9	↓			"	4775
380280			MINOR QUARTS.	"	4750

RESOLUTE RESOURCES LIMITED

329223

Project Name: TASMANIA Prospect Name: MATHINNA Tenement No.:

Sampler: GARY & ADRIAN. Sample Type: RC - HORIZON Sample Submission No.: K0946

Note: New Area - New Page & New Sample Type - New Page Date: / /

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
380281			MINOR QUARTS	4350	4850
2			TRACE "	"	4875
3			" "	"	4900
4				4650	4825
5			TRACE QUARTS	"	4850
6				"	4875
7			TRACE QUARTS	"	4900
8				"	4925
9			MINOR QUARTS	"	4950
380290			" " - NOT SIEVED	"	4975
1			NOT SIEVED	"	5000
2			" "	"	5025
3			MINOR QUARTS	"	5050
4				"	5075
5				"	5100
6			TRACE QUARTS	"	5125
7			NOT SIEVED	"	5150
8			" "	"	5175
9			TRACE QUARTS	"	5200
380300			ABUN. QUARTS K0946	4750	4925
1			½ AUGER TO BED ROCK CONTINUED FROM 380486	6200	5250
2			⅔ " TO " "	"	5300
3			¾ " TO " "	"	5350
4			⅔ " TO HARD CLAY	"	5400
5			½ " TO " "	"	5450
6			⅓ " TO BED ROCK	"	5500
7			¾ " TO HARD CLAY	"	5550
8			½ " TO BED ROCK	6000	5050
9			¾ " TO HARD CLAY	"	5100
380310			¾ " TO BED ROCK	"	5150

RESOLUTE RESOURCES LIMITED

Project Name: TASMANIA Prospect Name: MATHINNA 'C' HORIZON Tenement No.: 329221

Sampler: JAMES + MIKE Sample Type: ~~SURFACE SOIL~~ C HORIZON Sample Submission No.:

Note: New Area - New Page & New Sample Type - New Page Date: 28 / 12 / 94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
380311			1/2 AUGER TO BED ROCK	6000	5200
2			3/4 " TO HARD CLAY	"	5250
3			1/3 " TO BED ROCK	"	5300 ~~5300~~
4			1/3 " TO " "	"	5350
5			1/3 " TO " "	"	5400
6			FULL DRIVE	"	5450
7			1/2 AUGER TO BED ROCK	"	5500
8			1/2 " TO " "	"	5550
9			3/4 " TO HARD CLAY	"	5600
380320			1/3 " TO BED ROCK	"	5650
1			2/3 " TO " "	"	5700
2			1/3 " TO " "	"	5750
3			1/3 " TO " "	"	5800
4			2/3 " TO TREE ROOT	6000	5850
5			1/2 " TO HARD CLAY	"	5900
6			3/4 " TO BED ROCK	5700	5100
7			1/3 " TO HARD CLAY	"	5150
8			FULL AUGER STILL @ HARD CLAY	"	5200
9			" " HARD CLAY	"	5250
380330			3/4 AUGER TO HARD CLAY	"	5300
1			FULL AUGER	"	5350
2			1/3 AUGER TO BED ROCK	"	5400
3			2/3 " TO HARD CLAY	"	5450
4			1/2 " TO ROCK	"	5500
5			1/2 " TO BED ROCK	"	5550
6			1/2 " TO " "	"	5600
7			1/2 " TO " "	"	5650
8			2/3 " TO " "	"	5700
9			FULL AUGER	"	5750
380340			~~2/3 " TO ROCK~~	~~11800~~	~~8125~~

RESOLUTE RESOURCES LIMITED 329225

Project Name: TASMANIA Prospect Name: BOCCLANOS HILL INFILL MANGANA. Tenement No.:

A- HORIZON

Sampler: JAMES + MIKE Sample Type: SUBSURFACE SOIL Sample Submission No.:

Note: New Area - New Page & New Sample Type - New Page Date: 30/12/94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
380341	[redacted]		[redacted]	11800	8175
2				11700	8175
3				"	8125
4				11600	8075
5				"	8125
6				"	8175
7				11500	8175
8				11500	8125
9				11300	7825
380350				"	7775
1				11200	7875
2				"	7825
3				"	7775
4				"	7725
5				11100	7875
6				"	7825
7			SUSPECT SAMPLE ON DOZED AREA	8100	9775
8			SAMPLE 3M SOUTH ABOVE TRACK	"	9825
9			BELOW ROAD CUT	"	9875
380360				8000	9925
1				"	9875
2				"	9825
3				"	9775
4				7900	9825
5			6M SOUTH DUE TO COSTEAN	"	9875
6				"	9925
7				8900	9425
8	MANGANA		A- HORIZON	"	9475
9	MANGANA A-HORIZON		1km SOUTH WEST (CREEK) (LUBICZ INFILL)	5150	4350
380370			1km NORTH WEST (CREEK & ROAD)	"	4375

RESOLUTE RESOURCES LIMITED

320226

Project Name: TASMANIA Prospect Name: [redacted] JUBILEE INFILL Tenement No.:

Sampler: GARY & ADRIAN Sample Type: A-HORIZON SURFACE SOIL Sample Submission No.:

Note: New Area - New Page & New Sample Type - New Page Date: 21/1/95

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
380371				5150	4400
2			SUSPECT - (OLD WORKINGS)	"	4425
3			SUSPECT - (OLD WORKINGS)	"	4450
4			7m SOUTH EAST - (OLD WORKINGS)	"	4475
5				"	4500
6				"	4525
7				"	4550
8				"	4575
9				5050	4400
380380				"	4425
1				"	4450
2				"	4475
3				"	4500
4				"	4525
5				"	4550
6				"	4575
7				"	4600
8			4m SOUTH WEST - (WORKINGS)	"	4625
9				"	4650
380390				"	4675
1				"	4700
2				"	4725
3				4950	4425
4				"	4450
5				"	4475
6				"	4500
7				"	4525
8				"	4550
9				"	4575
380400			4m NORTH WEST - (ROAD)	"	4600

RESOLUTE RESOURCES LIMITED

329227

Project Name: TASMANIA Prospect Name: BLACK BOYS RIDGE Tenement No.:

Sampler: JAMES + MIKE Sample Type: SUBSURFACE SOIL Sample Submission No.:

Note: New Area - New Page & New Sample Type - New Page Date: 21 / 12 / 94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
380431				11100	9750
2				"	9800
3				"	9850
4				"	9900
5			SAMPLE 4M EAST AWAY FROM ROAD	"	9950
6				"	10000
7				"	10050
8				"	10100
9				"	10150
380440				"	10200
1				11500	9750
2				"	9800
3				"	9850
4				"	9900
5				"	9950
6				"	10000
7				"	10050
8			SAMPLE 3M EAST AWAY FROM ROAD	"	10100
9				"	10150
380450				"	10200
1			AUGER SAMPLE MATHINNA C horizon.	7200	4550
2			" "	"	4600
3				"	4650
4				"	4700
5				"	4750
6				"	4800
7				6800	4750
8			SAMPLE SLIGHTLY SHALLOWER THAN NORMAL	"	4800
9				"	4850
380460				"	4900

RESOLUTE RESOURCES LIMITED

329223

Project Name: TASMANIA Prospect Name: MATHINNA C HORIZON Tenement No.:

Sampler: JAMES + MIKE Sample Type: SUBSURFACE SOIL Sample Submission No.:

Note: New Area - New Page & New Sample Type - New Page Date: 27 / 12 / 94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
380461				6800	4950
2				"	5000
3				"	5050
4				"	5100
5				"	5150
6				6600	4900
7			3/4 AUGER REACHING BED ROCK	"	4950
8			1/2 " " " "	"	5000
9			2/3 " " " "	"	5050
380470			3/4 " " " "	"	5100
1			2/3 " " " "	"	5150
2			3/4 " HARD CLAY	"	5200
3			3/4 " " "	"	5250
4			3/4 " " " (DRY STICKY)	"	5300
5			3/4 " CLAY	6400	5100
6			3/4 " HARD CLAY + SLATE	"	5150
7			1/2 " TO BED ROCK	"	5200
8			1/3 " " " "	"	5250
9			FULL DEPTH OF AUGER DRY STICKY CLAY	"	5300
380480			3/4 AUGER TO BED ROCK	"	5350
1			FULL DEPTH OF AUGER TO BED ROCK	"	5400
2			2/3 AUGER TO BED ROCK	6200	5000
3			1/3 " " " "	"	5050
4			FULL DEPTH OF AUGER DRIVE 2.95	"	5100
5			3/4 AUGER TO BED ROCK	"	5150
6			FULL DEPTH OF AUGER	"	5200
7			TAKEN S-SW (MOLLOCK HEAD) A HORIZON	6200	4525
8			TAKEN ON ALLUVIAL TERRACE	" "	4475
9			SLOT ON " " " "	" "	4425
380490				" "	4375

RESOLUTE RESOURCES LIMITED

329229

Project Name: TASMANIA Prospect Name: HATHINNA VOLUNTEER Tenement No.:

Sampler: CRAIG & TIM Sample Type: SUBSURFACE SOIL Sample Submission No.:

Note: New Area - New Page & New Sample Type - New Page Date: 15/12/94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
380491			A HORIZON	6200	4325
2			TAKEN 4m W (OLD SHAFT)	" "	4275
3			TAKEN 20m N (OLD MULLOCK HEAP	6100	4325
4				6300	4225
5				6400	4325
6			ABUNDANT FLOATING QUARTZ ON TOP 2m SOIL	" "	4275
7				" "	4225
8				6300	4275
9				" "	4325
380500			TAKEN 6m W (AVOID ALLUVIUM FLATS)	" "	4375
1			KOGWILL A horizons 7100N, 2200E		
2			" "N, 2150E		
3			" "N, 2100E		
4			" "N, 2050E		
5			" "N, 2250E		
6			" "N, 2300E		
7			TAKEN 3m N (ROAD) " "N, 2350E		
8			" "N, 2400E		
9			TAKEN 7m S (WOOD PILE) " "N, 2450E		
380510			TAKEN 2m W (DISTURBANCE) " "N, 2500E		
1			7500N, 2200E		
2			" "N, 2150E		
3			TAKEN 10m SW (DISTURBANCE) " "N, 2100E		
4			" "N, 2050E		
5			TAKEN 6m W (ROAD) " "N, 2000E		
6			" "N, 2250E		
7			TAKEN 6m N (ROAD) " "N, 2302E		
8			" "N, 2350E		
9			" "N, 2400E		
380520			TAKEN 6m W (SCRAP PILE) " "N, 2450E		

RESOLUTE RESOURCES LIMITED 329230

Project Name: TASMANIA Prospect Name: MATHINNA VOLUNTEER Tenement No.:

Sampler: CRAIG & TIM Sample Type: SUBSURFACE SOIL Sample Submission No.:

Note: New Area - New Page & New Sample Type - New Page Date: 15/12/94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
380521				7500	2500
2			TAKEN 4m NW (FALLEN TREE)	7200	2200
3				"	2150
4			TAKEN 5m E (SURFACE DEBRIS)	"	2100
5				"	2050
6			TAKEN 10m W (GULLY)	"	2000
7				"	2250
8				7100	2200
9				"	2150
380530				"	2100
1				"	2050
2				"	2000
3			MATHINNA INFILL	6000	4325
4				"	4275
5				"	4075
6				"	3975
7				"	3925
8				"	3875
9				5900	3925
380540				"	3975
1				"	4025
2				"	4075
3			TAKEN 5m SW (COSTEAN)	"	4125
4				5800	4025
5				"	4075
6				"	4125
7				"	4175
8			TAKEN 5m NW (DIGGING)	"	4225
9				"	4275
380550				"	4375

RESOLUTE RESOURCES LIMITED

329231

Project Name: TASMANIA Prospect Name: MATHINNA Tenement No.:

Sampler: CRAIG & ADRIAN Sample Type: SURFACE SOIL Sample Submission No.:

Note: New Area - New Page & New Sample Type - New Page Date: 16/12/94

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
330551			MATHINNA INFILL	5500	4325
2				"	4375
3				5700	4375
4				"	4325
5				"	4275
6			TAKEN 5m S (GULLY)	"	4225
7				"	4175
8			TAKEN 5m N (GULLY)	"	4125
9				5600	4075
380560				"	4125
1				"	4175
2			TAKEN 15m S (COOSTEAN)	"	4225
3				"	4275
4				"	4325
5				5500	4325
6				"	4275
7			TAKEN 15m SW (WORKINGS)	"	4225
8				"	4175
9				5400	4125
380570			TAKEN 5m N (DISTURBANCE)	"	4075
1				"	4375
2				"	4425
3				"	4475
4				"	4825
5				"	4875
6				"	4925
7				5300	5075
8				"	5125
9				"	5175
380580				"	5225

329232

MinLab

MINCULTURE LABORATORIES PTY LTD ACN 008 980 174 TRUSTEE FOR THE MINLAB UNIT TRUST TRADING AS MINLAB

18A Denninup Way
MALAGA WA 6062
Tel: (09) 249 5277
Fax: (09) 249 5323

257A Forrest Street
KALGOORLIE WA 6430
Tel: (090) 21 5664
Fax: (090) 91 2200

Lot 484 Criddle St
MT MAGNET WA 6638
Tel: (099) 634 532
Fax: (099) 634 531

ANALYTICAL REPORT

Reference No: P52052

17/91

Date: 29 NOV 94

Samples Received: 24 NOV 94
Order Number : K9401
Project Number : 17/91
Samples in Batch: 605

AREA COVERED: MATHINNA

SAMPLE TYPE . SOB: SURFACE SOIL

THIS REPORT HAS BEEN PREPARED FOR

RESOLUTE RESOURCES LTD

AND SHOULD BE READ IN CONJUNCTION WITH THE FINAL PAGE

Authorised by: R Ferguson
(A.J. Ferguson)

ATTN: G McDONALD
RESOLUTE RESOURCES LTD
MANGANA RD
FINGAL TAS 7214

329233

Reference No: P52052 **ATTN: G McDONALD** Page: 1

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
375107	<1			<10
375116	<1			<10
375117	<1			<10
375118	<1			<10
375119	<1			<10
375120	<1			<10

MATHINNA

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
375184	2			<10
375185	4			<10
375186	3			<10
375187	3			<10
375188	3			<10
375189	3			<10
375190	3			<10
375191	<1			<10
375192	622	472	916	360
375193	120			120
375193 Rpt	120			140
375194	8			40
375195	274	150	78	180
375196	10			<10
375197	20			<10
375197 Rpt	14			<10
375198	12			<10
375199	14			<10
375200	5			<10

INA

Reference No: P52052 **ATTN: G McDONALD**

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
375201	7			<10
375202	4			<10
375203	13			<10
375204	8			<10
375205	745	880	696	340
375206	32			<10
375207	14			<10
375208	70			<10
375209	40			20
375210	24			40
375211	157	286		300
375212	6			<10
375213	6			<10
375214	4			<10
375215	<1			<10
375216	5			<10
375217	6			<10
375218	5			<10
375219	<1			<10
375220	5			<10
375221	4			<10
375222	4			<10
375223	15			<10
375223 Rpt	11			<10
375224	1			<10
375225	8			<10
375226	8			<10
375227	1			<10
375228	3			<10
375229	<1			10
375230	18			<10
375230 Rpt	21			<10
375231	12			<10
375232	1			<10
375233	5			<10
375234	2			<10
375235	20			<10
375236	6			<10
375237	25			30
375238	10			<10
375239	12			<10
375240	3			<10
375241	10			70
375242	18			<10
375242 Rpt	13			<10
375243	68			<10
375244	38			<10
375245	4			<10
375246	1			<10
375246 Rpt	4			<10
375247	3			<10
375248	3			<10

MATHINNA

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
375249	26	6		10
375250	10			<10
375251	3			<10
375252	3			<10
375253	6			<10
375254	6			<10
375255	2			<10
375256	<1			<10
375257	<1			<10
375258	7			<10
375259	<1			<10
375259 Rpt	<1			<10
375260	<1			<10
375261	6			<10
375262	4			<10
375263	4			<10
375264	12			10
375265	5			<10
375266	4			<10
375267	2			<10
375268	2			<10
375269	2			<10
375270	3			<10
375271	<1			<10
375271 Rpt	2			<10
375272	3			<10
375273	4			<10
375274	10	4		<10
375275	2			<10
375276	<1			<10
375277	2			<10
375278	3			<10
375279	2			<10
375280	<1			<10
375281	18	8		<10
375282	4			<10
375283	5			<10
375284	<1			<10
375284 Rpt	<1			<10
375285	1			<10
375285 Rpt	<1			<10
375286	<1			<10
375287	<1			<10
375288	<1			<10
375289	8			20
375290	36	30		140
375291	2			<10
375292	2			<10
375293	1			<10
375294	5			<10
375295	4			<10
375296	<1			<10

MATHINNA

Reference No: P52052 **ATTN: G McDONALD** Page: 5

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
375297	<1			<10
375298	2			<10
375298 Rpt	4			<10
375299	<1			<10
375300	2			<10
375301	5			<10
375302	2			<10
375303	<1			<10
375304	2			<10
375305	3			<10
375306	2			<10
375306 Rpt	2			<10
375307	<1			<10
375308	2			<10
375309	2			<10
375310	<1			<10
375311	<1			<10
375312	2			<10
375313	2			<10
375314	3			<10
375315	2			<10
375316	2			<10
375328	3			<10
375329	4			<10
375330	2			<10
375331	4			<10
375332	2			<10
375333	2			<10
375334	6			<10
375335	4			<10
375335 Rpt	3			<10
375336	8			<10
375337	7			<10
375338	1			<10
375339	<1			<10
375340	<1			<10
375341	4			<10
375342	<1			<10
375343	<1			<10
375344	<1			<10

MATHINNA

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
375345	<1			<10
375346	1			<10
375347	<1			<10
375348	2			<10
375349	<1			<10
375350	2			<10
375351	10	2	2	<10
375352	<1			<10
375353	2			<10
375354	1			<10
375354 Rpt	1			<10
375355	2			<10
375355 Rpt	2			<10
375356	6			<10
375357	8			<10
375358	6			<10
375359	4			<10
375360	14			40
375361	18			80
375362	6			<10
375362 Rpt	4			<10
375363	146	116	826	10
375364	6			10
375365	16			70
375366	4			<10
375367	3			<10
375368	5			<10
375369	20			<10
375370	10			20
375370 Rpt	11			20
375371	18			<10
375372	14			10
375373	26			30
375374	106	152		60
375375	52			130
375376	11			20
375377	25			80
375378	28			140
375379	6			<10
375380	4			<10
375381	2			10
375382	8			100
375383	17			90
375384	9			50
375385	24			60
375386	30			130
375387	27			120
375388	24			70
375389	28			90
375390	40			80
375391	46	50		130
375392	40			190

MATHINNA

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
375392 Rpt	39			180
375393	30			140
375394	65			240
375394 Rpt	65			190
375395	150	198		920
375396	26			30
375397	23			60
375398	14			40
375399	40			130
375400	20			80
375401	38			170
376501	69	190		70
376502	18			10
376502 Rpt	20			30
376503	6			<10
376504	11			<10
376505	12			<10
376506	6			<10
376507	13			<10
376508	20			<10
376509	31			<10
376510	28	12		10
376511	12			<10
376512	14			10
376512 Rpt	15			<10
376513	14			20
376514	28			10
376515	15			<10
376516	24			<10
376517	30			<10
376518	14			<10
376519	14			<10
376520	20			<10
376521	2			<10
376522	2			<10
376523	8			<10
376524	16			<10
376525	10			20
376526	372	46	256	10
376527	12			10
376528	14			<10
376529	14			<10
376530	44			40
376531	206			290
376532	14			<10
376533	8			<10
376534	4			<10
376535	26			10
376535 Rpt	28			20
376536	76	72	68	80
376537	26			<10
376538	30			<10

MATHINNA

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm	
Detn Limit	1	1	1	10	
376539	6			<10	
376540	4			<10	
376540 Rpt	6			<10	
376541	2			<10	
376542	4			<10	
376542 Rpt	112			<10	
376543	4			<10	
376544	<1			<10	
376545	2			<10	
376546	4			<10	
376547	<1			<10	
376548	248	58	654	<10	
376549	14			10	
376550	36			<10	
376551	96			70	
376552	8			10	
376552 Rpt	10			<10	
376553	10			<10	MATHINNA
376554	6			<10	
376555	8			<10	
376556	8			<10	
376557	2			<10	
376558	<1			<10	
376559	<1			<10	
376560	<1			<10	
376561	2			<10	
376562	2			<10	
376563	34	16	16	20	
376564	6			<10	
376564 Rpt	2			<10	
376565	16			<10	
376566	2			<10	
376567	22			40	
376568	34			110	
376569	24			50	
376570	4			<10	
376571	<1			<10	
376572	2			<10	
376573	2			<10	
376574	336	288	520	<10	
376575	24			<10	
376576	<1			<10	
376577	62			<10	
376578	<1			<10	
376579	<1			<10	
376580	2			<10	
376581	2			<10	
376582	2			<10	
376582 Rpt	2			<10	
376583	2			10	
376584	2			10	
376585	2			<10	

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm	
Detn Limit	1	1	1	10	
376586	<1			<10	
376587	2			<10	
376588	<1			10	
376589	16			<10	
376590	2			<10	
~~376~~590 Rpt	<1			<10	
376595	6			<10	
376596	2			<10	
376597	<1			<10	
376598	8			10	
376599	8			<10	
376600	4			<10	MATHINNA
376601	2	10		<10	
376602	752	6	6	<10	
376603	6	2		<10	
376604	<1			<10	
376610	<1	1		<10	
376611	156	14	12	<10	
376612	8	12		<10	
376613	2			<10	
376614	46			<10	
376615	2			<10	
376616	<1			<10	
376617	<1			<10	
376623	6	1		<10	
376624	8			<10	
376625	22			10	
376626	12	6	10	<10	
376627	<1			<10	
376628	2			<10	
376629	<1			<10	
376630	<1			<10	

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
376635	2			<10
376635 Rpt	<1			<10
376636	<1			<10
376637	6			<10
376637 Rpt	2			10
376638	<1			<10
376639	<1			<10
376640	<1			<10
376641	2			<10
376642	8			<10
376643	2			<10
376644	<1			<10
376649	<1			<10
376650	<1			<10
376651	<1			<10
376652	2			<10
376652 Rpt	<1			<10
376653	<1			<10
376654	2			<10
376655	2			<10
376656	<1			<10
376657	<1			<10
376658	<1			<10
376659	<1			<10
376660	2			<10
376661	<1			<10
376662	32	16	28	<10
376663	6			<10
376664	4			<10
376665	<1			<10
376665 Rpt	<1			<10

THINNA

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
376710	2			<10
376711	<1			<10
376712	<1			<10
376713	<1			<10
376714	2			<10
376715	2			<10
376716	2			<10
376717	6			<10
376718	4			<10
376718 Rpt	4			<10
376719	6			<10
376720	16	18		80
376721	6			<10
376722	6			30
376723	<1			<10
376724	2			<10
376725	2			<10
376726	2			<10
376727	2			<10
376727 Rpt	2			<10

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm	
Detn Limit	1	1	1	10	
376728	4			<10	
376729	6			<10	
376730	2			<10	
376731	6			<10	
376732	6			30	
376733	6			<10	
376734	8			<10	
376735	16	6		20	
376736	14			30	
376737	2			<10	
376738	14			<10	
376739	8			<10	
376740	6			<10	
376741	2			<10	
376742	6			<10	
376742 Rpt	6			<10	MATHINNA
376743	2			<10	
376744	12			60	
376745	18	6		<10	
376746	4			<10	
376747	10			<10	
376748	1			<10	
376748 Rpt	2			<10	
376749	22			40	
376750	4			<10	
376751	2			<10	
376752	<1			20	
376753	6			10	
376753 Rpt	6			10	
376754	4			10	
376755	6			<10	
376755 Rpt	4			<10	
376756	22			50	
376757	26			80	
376758	30	32	44	160	
376759	38			230	
376760	16			10	
376761	16			60	
376762	38			100	
376763	20			30	
376764	32			110	
376765	38			220	
376766	22			120	
376767	52			290	
376768	14			10	
376769	14			40	
376770	58			130	
376771	50			120	
376772	126	128	122	390	
376773	108			280	
376774	194			540	
378001	46			40	

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
378002	14			10
378003	14			<10
378004	58			<10
378005	12			30
378006	34			80
378006 Rpt	18			100
378007	10			<10
378007 Rpt	12			<10
378008	6			10
378009	38	58		40
378010	52	14		60
378011	22	20		<10
378012	6			10
378013	12			30
378014	22			10
378015	274			110
378016	32			50
378017	6			<10
378018	22			<10
378019	260	404	248	190
378020	186			90
378021	6			<10
378022	6			10
378023	6			20
378024	2			<10
378025	<1			<10
378026	2			<10
378027	4			20
378028	4			<10
378029	2			<10
378030	2			<10
378030 Rpt	2			<10
378031	<1			<10
378032	2			<10
378033	16			<10
378034	8			20
378035	8			30
378036	84	40	78	280

MATHINNA

****

Au, Au(R1), Au(R2),
Technique - Fire Assay on a 50 gram charge followed by solvent extraction

As,
Technique - AAS

END OF REPORT

MinLab

329247

MINCULTURE LABORATORIES PTY LTD ACN 008 960 174 TRUSTEE FOR THE MINLAB UNIT TRUST TRADING AS MINLAB

18A Denninup Way
MALAGA WA 6062
Tel: (09) 249 5277
Fax: (09) 249 5323

257A Forrest Street
KALGOORLIE WA 6430
Tel: (090) 21 5664
Fax: (090) 91 2200

Lot 484 Criddle St
MT MAGNET WA 6638
Tel: (099) 634 532
Fax: (099) 634 531

ANALYTICAL REPORT

Reference No: P52004

Date: 21 NOV 94

Samples Received: 15 NOV 94
Order Number : K9402A
Project Number : 17/91
Samples in Batch: 106

AREA COVERED : MATHINNA

SAMPLE TYPE : SUB-SURFACE SOIL

THIS REPORT HAS BEEN PREPARED FOR

RESOLUTE RESOURCES LTD

AND SHOULD BE READ IN CONJUNCTION WITH THE FINAL PAGE

Authorised by: R Ferguson
(A.J. Ferguson)

ATTN: B SHAW
RESOLUTE RESOURCES LTD
MANGANA RD
FINGAL TAS 7214

329248

Reference No: P52004 **ATTN: B SHAW** Page: 1

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm	
Detn Limit	1	1	1	10	
375001	8			<10	
375002	258	94		<10	
375002 Rpt	8			<10	
375003	8			<10	
375004	3			<10	
375005	6			<10	
375006	12			<10	
375007	4			<10	
375008	8			<10	
375008 Rpt	12			<10	
375009	6			<10	
375010	10			<10	
375011	6			<10	
375012	6			<10	
375013	2			<10	
375014	8			<10	
375016	8			<10	MATHINNA
375017	22			<10	
375018	50	11	13	<10	
375019	6			<10	
375020	4			<10	
375021	4			<10	
375022	3			<10	
375023	3			<10	
375024	5			<10	
375025	12	1	1	<10	
375026	1			<10	
375027	1			<10	
375028	1			<10	
375029	3			<10	
375030	3			<10	
375032	1			<10	
375032 Rpt	3			<10	
375033	1			<10	
375034	2			<10	
375035	1			<10	
375036	1			<10	
375040	2			<10	
375041	1			<10	
375042	2			<10	
375043	4			<10	
375044	2			<10	

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
375049	<1			<10
375050	4			<10
375051	2			<10
375052	<1			<10
375053	4			<10
375058	<1			<10
375059	2			<10
375059 Rpt	2			<10
375060	2			<10
375061	2			<10
375062	2			<10
375071	<1			<10
375072	2			<10
375073	<1			<10
375074	<1			<10
375075	2			<10
375084	2			<10
375085	1			<10
375086	2			<10
375086 Rpt	2			<10
375087	1			<10
375088	2			<10

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
375098	1			<10
375099	2			<10
375100	2			<10
375101	1			<10
375102	<1			<10
375103	1			<10
375104	2			<10
375105	1			<10
375106	<1			<10

MATHINNA

****

Au, Au(R1), Au(R2),
Technique - Fire Assay on a 50 gram charge followed by solvent extraction

As,
Technique - AAS

END OF REPORT

MinLab

329252

MINCULTURE LABORATORIES PTY LTD ACN 008 960 174 TRUSTEE FOR THE MINLAB UNIT TRUST TRADING AS MINLAB

18A Denninup Way
MALAGA WA 6062
Tel: (09) 249 5277
Fax: (09) 249 5323

257A Forrest Street
KALGOORLIE WA 6430
Tel: (090) 21 5664
Fax: (090) 91 2200

Lot 484 Criddle St
MT MAGNET WA 6638
Tel: (099) 634 532
Fax: (099) 634 531

ANALYTICAL REPORT

Reference No: P52105

Date: 07 DEC 94

Samples Received: 02 DEC 94
Order Number : K9403
Project Number : N/A
Samples in Batch: 501

AREA COVERED : MATHINNA

SAMPLE TYPE : SUB-SURFACE SOIL

THIS REPORT HAS BEEN PREPARED FOR

RESOLUTE RESOURCES LTD

AND SHOULD BE READ IN CONJUNCTION WITH THE FINAL PAGE

Authorised by: R Ferguson
(A.J. Ferguson)

ATTN: G McDONALD
RESOLUTE RESOURCES LTD
MANGANA RD
FINGAL TAS 7214

Reference No: P52105 **ATTN: G McDONALD**

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
375402	58	46		140
375403	32			60
375404	26			20
375405	72			210
375405 Rpt	72			240
375406	118	121	120	50
375407	50			130
375408	20			10
375409	22			40
375410	36			50
375411	24			20
375412	62			100
375413	114	108	120	340
375414	36			130

VH

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
375461	<1			<10
375462	<1			<10
375463	<1			<10
375463 Rpt	<1			<10
375464	2			<10
375465	<1			40

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
376775	20			60
376776	48	40	26	50
376777	60			190
376778	50			240
376779	110			380
376780	46			80
376781	34			10
376782	36			120
376783	90	56	62	190
376784	68			190
376785	64			250
376786	348	76	74	230
376787	42			100
376788	56			200

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
376856	<1			<10
376857	2			<10
376858	2			<10
376859	2			<10
376860	<1			<10
376861	2			<10
376862	<1			<10
376867	2			<10
376868	2			<10
376869	2			<10
376870	20	10	14	<10
376871	6			<10
376872	<1			<10
376873	<1			<10
376874	<1			<10
376875	2			<10
376876	2			<10
376877	2	2		<10
376877 Rpt	12			<10
376878	<1			<10
376879	<1			<10
376880	2			<10
376881	<1			<10
376882	2			<10
376882 Rpt	2			<10
376883	2			<10
376884	2			<10

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
376889	2			<10
376889 Rpt	<1			<10
376890	4			<10
376891	58			<10
376892	138	6	28	<10
376893	2			<10
376894	20			<10
376895	8			<10
376896	2			<10
376897	12	1		<10
376898	4			<10
376899	6			<10
376906	<1			<10

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
378085	2			<10
378086	<1			<10
378087	4			<10
378087 Rpt	2			<10
378088	<1			<10
378089	<1			50
378090	<1			<10
378091	<1			<10
378096	<1			<10
378097	4			<10
378098	2			<10
378099	2			<10
378100	<1			<10
378101	2			<10
378102	2			<10
378103	2			<10
378104	<1			<10
378105	4			<10
378106	10			20

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
378106 Rpt	12			10
378107	8			<10
378107 Rpt	8			<10
378108	10	6		<10
378109	6			<10
378110	4			<10
378111	4			<10
378112	4			<10
378113	4			<10
378114	4			<10
378119	6			<10
378120	6			<10
378121	8	1		20
378122	8			<10
378123	4			<10
378124	4			<10
378125	4			<10
378126	8			<10
378127	4			<10
378128	8			<10
378129	10			10
378129 Rpt	8			<10
378136	4			<10
378141	4			70
378142	6			<10
378143	4			<10
378144	10			<10
378145	12	1		<10
378146	34	186	26	<10
378147	6			<10
378148	124			<10
378149	8			<10
378150	6			10
378151	20			80
378151 Rpt	22			50

****

Au, Au(R1), Au(R2),
Technique - Fire Assay on a 50 gram charge followed by solvent extraction

As,
Technique - AAS

END OF REPORT

MinLab

MINCULTURE LABORATORIES PTY LTD ACN 008 980 174 TRUSTEE FOR THE MINLAB UNIT TRUST TRADING AS MINLAB

329261

18A Denninup Way
MALAGA WA 6062
Tel: (09) 249 5277
Fax: (09) 249 5323

257A Forrest Street
KALGOORLIE WA 6430
Tel: (090) 21 5664
Fax: (090) 91 2200

Lot 484 Criddle St
MT MAGNET WA 6638
Tel: (099) 634 532
Fax: (099) 634 531

ANALYTICAL REPORT

Reference No: P52124

Date: 15 DEC 94

AREA COVERED : MATHINNA / CHINAMEN'S HILL

SAMPLE TYPE : SUB-SURFACE SOIL

Samples Received: 06 DEC 94
Order Number : K9404A
Project Number : N/A
Samples in Batch: 322
INC. K9405

THIS REPORT HAS BEEN PREPARED FOR

RESOLUTE RESOURCES LTD

AND SHOULD BE READ IN CONJUNCTION WITH THE FINAL PAGE

Authorised by: _____
(A.J. Ferguson)

ATTN: G McDONALD
RESOLUTE RESOURCES LTD
MANGANA RD
FINGAL TAS 7214

329262

Reference No: P52124 **ATTN: G McDONALD** Page: 1

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm	
Detn Limit	1	1	1	10	
377035	22	28	24	<10	
377036	46	36	46	90	
377037	16			10	
377038	34			40	
377039	22			30	MATHINNA
377039 Rpt	22			30	
377040	12			<10	
377041	48			120	
377042	10			<10	
377042 Rpt	14			<10	
377043	14			<10	
377073	6			<10	
377074	4			<10	
377075	2			<10	
377076	2			<10	CHINAMENS HILL
377077	4			<10	
377078	4			<10	
377079	2			<10	

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm	
Detn Limit	1	1	1	10	
377092	16			<10	
377093	22	18	20	<10	
377094	4			30	
377095	2			<10	
377096	4			<10	
377097	4			<10	
377098	4			<10	
377099	2			<10	
377100	2			<10	
377100 Rpt	<1			<10	
377105	54	24	40	10	
377106	14			<10	
377107	2			<10	
377108	10			<10	
377109	10			<10	CHINAMEN'S HILL
377110	2			<10	
377111	14			10	
377112	12			100	
377113	4			<10	
377114	2			<10	
377115	6			10	
377116	2			<10	
377117	2			<10	
377118	4			10	
377118 Rpt	8			<10	
377119	<1			<10	
377120	10			<10	
377121	16	32	30	<10	
377126	16			40	
377127	66	22	50	<10	
377128	<1			10	
377129	<1			<10	
377130	22			<10	
377131	<1			<10	
377132	<1			<10	
377133	52	12	26	<10	
377134	4			10	
377135	<1			<10	
377136	<1			<10	
377137	<1			<10	
377138	10			<10	
377139	<1			<10	

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
377140	38	8	14	<10
377141	<1			<10
377142	<1			<10
377143	<1			<10
377143 Rpt	<1			<10
377144	<1			<10
377145	<1			<10
377150	104	58	150	<10
377151	10			<10
377152	12			<10
377153	12			<10
377154	8			<10
377155	16			30
377156	22			<10
377157	34			<10
377158	16	12	6	<10
377159	6			<10
377160	4			<10
377161	6			<10
377162	6			<10
377163	4			<10
377163 Rpt	4			<10
377164	4			<10
377165	4			<10
377166	10			<10
377166 Rpt	10			<10
377167	4			<10
377168	6			<10
377169	6			<10
377170	6			<10
377171	16	6	6	<10
377172	6			<10
377173	6			<10
377174	8			<10
377175	6			<10
377175 Rpt	6			<10
377176	6			<10
377176 Rpt	6			<10
377177	4			<10
377178	4			<10
377179	4			<10
377180	8			<10
377181	6			<10
377182	6			<10
377183	8			<10
377184	6			<10
377185	8			<10

MATHINNA

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
377186	6			<10
377187	6			<10
377188	8			<10
377189	6			<10
377190	10	12	12	<10
377191	8			<10
377192	6			<10
377193	6			<10
377194	10			<10
377194 Rpt	8			<10
377195	6			<10
377196	4			<10
377197	10			10
377197 Rpt	14			10

17/21

MATHINNA

NAMENS HILL

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
378310	12			<10
378311	2			<10
378311 Rpt	8			<10

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
378312	6			<10
378313	4			<10
378314	6			<10
378315	6			<10
378316	6			<10
378317	6			<10
378318	6			10
378323	132	406	92	60
378324	16			<10
378324 Rpt	18			<10
378325	22	24		50
378326	8			<10
378327	12			<10
378328	12	10	12	<10
378329	14			60
378330	12			80
378331	10			<10
378332	8			<10
378333	10			<10
378334	8			<10
378335	12			<10
378336	8			<10
378337	8			<10
378338	8			<10
378339	10			<10
378344	8			<10
378345	38	24	192	100
378346	16			10
378347	10			<10
378348	12			<10
378349	10			10
378350	12			<10
378351	18	34	18	10
378352	16			30
378353	10			20
378354	12			<10
378355	12			<10
378356	12			<10
378357	18			<10
378358	10			<10
378359	10			<10
378360	18			<10

CHIMNEYS HILL

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
378360 Rpt	12			<10
378361	16			<10
378362	10			<10
378367	16	14	16	<10
378368	12			<10
378369	12			<10
378370	10			<10
378371	12			<10
378372	12			<10
378373	16			<10
378374	28	10	12	<10
378375	12			<10
378376	4			<10
378377	6			<10
378378	10			<10
378379	6			<10
378380	8			<10
378381	6			<10
378382	8			<10
378382 Rpt	8			<10
378383	8			<10
378384	8			<10
378385	12			10
378386	10			<10
378387	8			<10
378387 Rpt	10			<10
378388	10			<10
378389	10	12	10	<10
378390	4			<10
378391	4			<10
378392	6			<10
378393	8	10	10	<10
378394	4			<10
378395	4			<10
378396	10			<10
378396 Rpt	8			<10

CHINAMENS HILL

MATHINNA

****

Au, Au(R1), Au(R2),
Technique - Fire Assay on a 50 gram charge followed by solvent extraction

As,
Technique - AAS

END OF REPORT

MinLab

329270

MINCULTURE LABORATORIES PTY LTD ACN 008 980 174 TRUSTEE FOR THE MINLAB UNIT TRUST TRADING AS MINLAB

18A Denninup Way
MALAGA WA 6062
Tel: (09) 249 5277
Fax: (09) 249 5323

257A Forrest Street
KALGOORLIE WA 6430
Tel: (090) 21 5664
Fax: (090) 91 2200

Lot 484 Criddle St
MT MAGNET WA 6638
Tel: (099) 634 532
Fax: (099) 634 531

ANALYTICAL REPORT

Reference No: P52126

Date: 12 DEC 94

AREA COVERED : MATHINNA, CHINAMENS HILL

SAMPLE TYPE : SUB-SURFACE SOIL

Samples Received: 06 DEC 94
Order Number :
Submission Sheet: K9404B
Project Number : N/A
Samples in Batch: 32

THIS REPORT HAS BEEN PREPARED FOR

RESOLUTE RESOURCES LIMITED

AND SHOULD BE READ IN CONJUNCTION WITH THE FINAL PAGE

Authorised by: _____
(A.J. Ferguson)

ATTN: G McDONALD
THE RESOLUTE SAMANTHA GROUP
MANGANA RD
FINGAL TAS 7214

Reference No: P52126 **ATTN: G McDONALD** Page: 1

329271

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm	
Detn Limit	1	1	1	10	
377044	12			10	
377045	20	30	28	60	
377046	8			<10	
377047	12			20	
377048	8			<10	
377049	20	36	20	40	MATHINNA
377050	14			40	
377080	4			<10	
377085	8			10	
377086	6			<10	CHINAMENS HILL
377087	4			<10	
377087 Rpt	4			<10	
377088	6			<10	
377089	10			<10	
377090	8			20	
377091	10	26	14	60	
377198	6			<10	
377199	6			<10	
377200	6			<10	
377201	8			<10	
377202	8			<10	MATHINNA
378397	8			<10	
378398	6			<10	
378399	4			<10	

****

Au, Au(R1), Au(R2),
Technique - Fire Assay on a 50 gram charge followed by solvent extraction

As,
Technique - AAS

END OF REPORT

MinLab

MINCULTURE LABORATORIES PTY LTD ACN 008 980 174 TRUSTEE FOR THE MINLAB UNIT TRUST TRADING AS MINLAB

329273

18A Denninup Way
MALAGA WA 6062
Tel: (09) 249 5277
Fax: (09) 249 5323

257A Forrest Street
KALGOORLIE WA 6430
Tel: (090) 21 5664
Fax: (090) 91 2200

Lot 484 Criddle St
MT MAGNET WA 6638
Tel: (099) 634 532
Fax: (099) 634 531

ANALYTICAL REPORT

Reference No: P52171

Date: 21 DEC 94

Samples Received: 13 DEC 94
Order Number : K9407B
Project Number : N/A
Samples in Batch: 12

AREA COLLECT : MINANGANA

SAMPLE TYPE : AUGERED SUB-SURFACE SOIL

THIS REPORT HAS BEEN PREPARED FOR

RESOLUTE RESOURCES LTD

AND SHOULD BE READ IN CONJUNCTION WITH THE FINAL PAGE

Authorised by: P A
(C.A. Jenkins)

ATTN: G McDONALD
RESOLUTE RESOURCES LTD
MANGANA RD
FINGAL TAS 7214

Reference No: P52171 **ATTN: G McDONALD** 322274 Page: 1

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
379577	6			<10
379577 Rpt	6			<10
379578	12			20
379579	6			10
379580	8			60
379581	36	60	40	90
379582	8			<10
379583	6			<10
379584	28			<10
379585	34	40	34	40
379586	8			<10
379587	4			<10
379588	6			<10

****

Au, Au(R1), Au(R2),
Technique - Fire Assay on a 50 gram charge followed by solvent extraction

As,
Technique - AAS

END OF REPORT

MinLab

329276

MINCULTURE LABORATORIES PTY LTD ACN 008 980 174 TRUSTEE FOR THE MINLAB UNIT TRUST TRADING AS MINLAB

18A Denninup Way
MALAGA WA 6062
Tel: (09) 249 5277
Fax: (09) 249 5323

257A Forrest Street
KALGOORLIE WA 6430
Tel: (090) 21 5664
Fax: (090) 91 2200

Lot 484 Criddle St
MT MAGNET WA 6638
Tel: (099) 634 532
Fax: (099) 634 531

ANALYTICAL REPORT

Reference No: P52182

Date: 21 DEC 94

AREA COVERED : MATHINNA

SAMPLE TYPE : C-HORIZON SOIL

Samples Received: 15 DEC 94
Order Number : N/A
Project Number : N/A
Samples in Batch: 9
PART: K9407

THIS REPORT HAS BEEN PREPARED FOR

RESOLUTE RESOURCES LTD

AND SHOULD BE READ IN CONJUNCTION WITH THE FINAL PAGE

Authorised by: C A J
(C.A. Jenkins)

ATTN: G McDONALD
RESOLUTE RESOURCES LTD
MANGANA RD
FINGAL TAS 7214

Reference No: P52182 **ATTN: G McDONALD**

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
379589	18			80
379590	213 - 336	136	181	<10
379591	12			40
379592	55- 56	53		<10
379593	36			<10
379594	38			80
379595	20			20
379595 Rpt	20			20
379596	30- 38	22		30
379597	14			110

****

Au, Au(R1), Au(R2),
Technique - Fire Assay on a 50 gram charge followed by solvent extraction

As,
Technique - AAS

END OF REPORT

MinLab

329279

MINCULTURE LABORATORIES PTY LTD ACN 008 980 174 TRUSTEE FOR THE MINLAB UNIT TRUST TRADING AS MINLAB

18A Denninup Way
MALAGA WA 6062
Tel: (09) 249 5277
Fax: (09) 249 5323

257A Forrest Street
KALGOORLIE WA 6430
Tel: (090) 21 5664
Fax: (090) 91 2200

Lot 484 Criddle St
MT MAGNET WA 6638
Tel: (099) 634 532
Fax: (099) 634 531

ANALYTICAL REPORT

Reference No: P52169

Date: 21 DEC 94

Samples Received: 13 DEC 94
Order Number : K9406
Project Number : N/A
Samples in Batch: 583

AREA COVERED: MATHINNA / MANGANA

SAMPLE TYPE: SUB-SURFACE SOIL

THIS REPORT HAS BEEN PREPARED FOR

RESOLUTE RESOURCES LTD

AND SHOULD BE READ IN CONJUNCTION WITH THE FINAL PAGE

Authorised by: C.A. Jenkins
(C.A. Jenkins)

ATTN: G McDONALD
RESOLUTE RESOURCES LTD
MANGANA RD
FINGAL TAS 7214

329280

Reference No: P52169 ATTN: G McDONALD Page: 1

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm	
Detn Limit	1	1	1	10	
375540	30	74	62	30	
375541	16			10	
375542	14			30	
375543	8			<10	
375544	6			<10	
375545	8			<10	
375546	4			<10	
375547	20			<10	
375548	8			<10	
375548 Rpt	10			<10	
375549	14			<10	
375550	8			<10	
375551	14			<10	
375552	8			<10	
375553	34			70	
375553 Rpt	28			90	
375554	10			<10	
375555	56	58	62	60	
375556	58			<10	
375557	28			<10	
375558	20			<10	MATHINNA
375559	24			<10	
375560	10			<10	
375561	12			<10	
375562	6			<10	
375563	4			<10	
375564	18	24		<10	
375565	10			<10	
375566	14			<10	
375567	10			<10	
375568	<1			<10	
375568 Rpt	1			<10	
375569	14			40	
375570	14			10	
375571	6			10	
375572	10			90	
375573	22	24		80	
375574	10			40	
375575	22			20	
375576	4			<10	
375577	14			40	
375578	<1			<10	
375578 Rpt	<1			<10	
375579	2			20	
375580	4			<10	
375581	8			10	
375582	6			30	
375583	6			60	
375584	14			60	
375586	44	28	20	60	
375587	36			100	

Reference No: P52169 **ATTN: G McDONALD** Page: 2

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
375588	22			20
375589	38			100
375589 Rpt	36			110
375590	36			140
375591	22			140
375592	10			60
375593	24	36		30
375594	6			<10
375595	6			<10
375596	6			10
375597	2			20
375598	16			30
375599	10	10		<10
375599 Rpt	34			<10
375600	8			<10
375601	26			<10

Reference No: P52169 ATTN: G McDONALD

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm	
Detn Limit	1	1	1	10	
377203	74	74	74	80	
377204	22			I/S	
377205	8			<10	
377206	8			<10	
377207	6			<10	
377208	2			<10	
377209	4			<10	
377210	8			<10	
377211	6			<10	
377212	4			<10	
377212 Rpt	4			<10	
377213	6			<10	
377214	4			<10	
377215	2			<10	
377216	72			210	
377216 Rpt	76			200	
377217	80	60	72	130	MATHINNA
377218	48			80	
377219	16			<10	
377220	20			30	
377221	60			110	
377222	8			<10	
377223	10			<10	
377224	8			<10	
377225	8			<10	
377226	20			<10	
377227	12			<10	
377228	6			<10	
377228 Rpt	6			<10	
377229	14			<10	
377230	10			<10	
377231	18			<10	
377232	18			20	
377233	42	44	38	90	
377234	26			40	
377235	26			30	
377236	28			30	
377237	60			170	
377238	24			20	
377239	48			60	
377240	36			50	
377241	32			<10	
377241 Rpt	38			<10	
377242	14			<10	
377243	10			<10	

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm	
Detn Limit	1	1	1	10	
377244	10			20	
377244 Rpt	10			30	
377245	18			50	
377246	2			<10	
377248	20			40	
377249	86	82	88	170	
377250	62			110	
377251	10			<10	
377252	26			<10	
377253	14			10	
377254	32			<10	
377255	22			30	
377256	12			<10	
377257	10			<10	
377258	22			40	
377258 Rpt	16			30	
377259	46			180	
377260	16			10	MATHINNH
377261	14			<10	
377262	20			20	
377263	22			10	
377264	22			<10	
377265	12			10	
377266	22			10	
377267	24	22		20	
377268	10			<10	
377269	30			20	
377270	10			<10	
377270 Rpt	14			<10	
377271	10			20	
377272	6			<10	
377273	14			<10	
377274	8			<10	
377275	12			50	
377276	6			<10	
377277	10			40	
377278	12			40	
377279	10			30	

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm	
Detn Limit	1	1	1	10	
377701	26			60	
377701 Rpt	26			40	
377702	50	44	50	110	
377703	36			70	
377704	16	12		40	
377705	40			100	
377706	8			<10	
377707	42			40	
377708	20			10	
377709	18			<10	
377710	12			20	
377711	16			<10	
377711 Rpt	12			<10	MATHINNA
377712	32			70	
377713	14			70	
377714	18			70	
377715	52	56	54	210	
377716	46			150	
377717	30			120	
377718	12			50	
377719	32			130	
377720	24			40	
377721	12			60	
377722	8			30	
377723	10			40	
377724	20			50	
377725	78	88	82	110	
377726	8			<10	
377727	4			<10	
377727 Rpt	6			<10	
377728	4			<10	
377729	4			<10	
377730	4			<10	

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
378400	22	20	20	70
378401	14			20
378402	6			<10
378403	8			<10
378404	6			<10
378405	2			<10
378406	4			<10
378406 Rpt	4			<10
378407	6			<10
378408	4			<10
378409	6			<10
378410	6			10
378410 Rpt	6			<10
378411	6			<10
378412	6			<10
378413	40	58	34	40
378414	18			20
378415	56			210
378416	14			30
378417	12			20
378418	12			10
378419	12			10
378419 Rpt	14			10
378420	12			10
378421	14			60
378422	10			<10
378423	6			<10
378424	10			<10
378425	6			<10
378426	8			<10
378427	8			<10
378428	8			<10
378429	36			30
378429 Rpt	48			50
378430	8			<10
378431	8			<10
378432	68	82	62	<10
378433	26			20
378434	20			70
378435	10			10
378436	8			<10
378437	10			<10
378438	16			<10
378439	50	38	24	<10
378440	12			30
378441	8			<10

17/91

MATHINNA

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm	
Detn Limit	1	1	1	10	
378442	10			10	
378443	4			<10	
378445	34			50	
378446	20			60	
378447	4			10	
378448	18			20	
378448 Rpt	12			20	
378449	26			30	
378450	8			<10	
378450 Rpt	6			<10	
378451	12	14		<10	
378452	22	38	24	10	
378453	22			10	
378454	16			70	
378455	34			100	
378456	44	82	36	50	
378457	20			90	
378458	42			170	
378459	16			40	MATHINNA
378460	8			<10	
378460 Rpt	8			10	
378461	8			10	
378462	20			<10	
378463	10			<10	
378464	14			<10	
378465	10			<10	
378466	14			<10	
378467	18			60	
378468	14			20	
378469	10			10	
378469 Rpt	8			<10	
378470	2			<10	
378471	20			20	
378472	36	16	16	10	
378473	6			30	
378474	4			<10	
378475	4			40	
378476	8			<10	
378477	1			<10	
378478	4			<10	
378479	10			<10	
378480	2			<10	
378481	1			<10	
378481 Rpt	1			<10	
378482	1			<10	
378483	4			<10	
378484	2			<10	
378485	8			10	
378486	4			<10	
378487	2			<10	
378488	4			<10	

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
378489	10			<10
378490	14			20
378491	20	26	28	<10
378492	8			<10

1A

****

I/S = Insufficient Sample for determination of this element

Au, Au(R2),
Technique - Fire Assay on a 50 gram charge followed by solvent extraction

Au(R1),
Technique - Fire Assay on a 50 gram charge

As,
Technique - AAS

END OF REPORT

329289

MinLab

MINCULTURE LABORATORIES PTY LTD ACN 008 960 174 TRUSTEE FOR THE MINLAB UNIT TRUST TRADING AS MINLAB

18A Denninup Way
MALAGA WA 6062
Tel: (09) 249 5277
Fax: (09) 249 5323

257A Forrest Street
KALGOORLIE WA 6430
Tel: (090) 21 5664
Fax: (090) 91 2200

Lot 484 Criddle St
MT MAGNET WA 6638
Tel: (099) 634 532
Fax: (099) 634 531

ANALYTICAL REPORT

Reference No: P52226

Date: 31 DEC 94

Samples Received: 28 DEC 94
Order Number : K9410A
Project Number : N/A
Samples in Batch: 776

AREA COVERED: NIMATHANNA, CHINAMANS HILL
BUCKLANDS HILL, BLACKBOY RIDGE.

SAMPLE TYPE:
SUB-SURFACE SOIL

THIS REPORT HAS BEEN PREPARED FOR

RESOLUTE RESOURCES LTD

AND SHOULD BE READ IN CONJUNCTION WITH THE FINAL PAGE

Authorised by: R Ferguson
(A.J. Ferguson)

ATTN: G McDONALD
RESOLUTE RESOURCES LTD
MANGANA RD
FINGAL TAS 7214

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
380074	28			20
380074 Rpt	30			10
380075	12			<10
380076	14			20
380077	34			<10
380078	12			<10
380078 Rpt	12			<10
380079	18			<10
380080	66	30	36	50
380081	18			<10
380082	32			<10
380083	2			<10
380084	26			70
380085	58	34	60	40
380086	20			<10
380087	18			30

17/91

CHINAMENS HILL

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm	
Detn Limit	1	1	1	10	
					BUCKLANDS HILL
379801	<1			<10	
379802	2			<10	
379803	8			<10	
379804	14			10	
379804 Rpt	10			<10	
379805	78	26	20	50	
379806	8			10	
379807	4			50	
379808	18			10	
379809	26			70	
379810	38			<10	
379811	10			<10	
379812	42	12		<10	
379812 Rpt	6			<10	MATHINNA
379813	24	16		<10	
379813 Rpt	8			20	
379814	12			<10	
379815	12			<10	
379816	6			<10	
379817	4			<10	
379818	6			20	
379819	10			<10	
379820	6			<10	
379821	8			<10	
379822	6			<10	
379823	6			<10	
379824	10			20	

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm	
Detn Limit	1	1	1	10	
379825	8			<10	
379826	6			<10	
379827	6			10	
379828	6			<10	
379829	<1			<10	
379830	<1			<10	
379830 Rpt	<1			<10	
379831	<1			<10	
379832	72	44		<10	MATHINNA
379832 Rpt	<1			<10	
379833	<1			<10	
379834	<1			<10	
379835	<1			<10	
379836	<1			<10	
379837	<1			<10	
379838	<1			<10	
379857	<1			<10	
379858	28	14		<10	
379858 Rpt	<1			<10	

34 RIDGE

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
378918	22			<10
378919	40	32		90
378920	34			<10

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
378921	24			<10
378922	26			30
378923	3.85M	1.99M	1.16M	<10
378924	98	48		30
378925	22			<10
378926	28			80
378927	18			30
378928	78			110
378929	84	56		100
378930	14			<10
378930 Rpt	20			<10
378931	14			<10
378932	22			<10
378933	22			30
378934	28			60
378935	60			70
378935 Rpt	62			70
378936	16			<10
378937	14			40
378938	26			<10
378939	72	90		70
378940	60			20
378941	46			30
378942	66			20
378942 Rpt	62			20
378943	14			10
378944	32			<10
378945	36			<10
378946	38			<10
378947	62			<10
378948	88	50		<10
378949	24			<10
378950	16			<10
378951	26			20
378952	46	92	80	<10
378953	20			<10
378954	24			20
378955	18			<10
378955 Rpt	22			<10
378956	28			30
378957	56	60		20
378958	24			<10
378959	38			20
378960	82			10
378961	20			10
378962	26			10
378963	28			40
378964	16			<10

MATHINNA

ACKBOY RIDGE

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm	
Detn Limit	1	1	1	10	
380027	8			10	
380028	6			<10	
380029	10			<10	
380030	10			<10	
380031	8			<10	
380031 Rpt	8			<10	
380032	4			<10	
380033	4			<10	
380034	4			<10	
380035	14			<10	MATHINNA
380036	14			<10	
380037	62	46	48	<10	
380038	26			<10	
380039	10			<10	
380040	10			<10	
380041	6			<10	
380042	4			<10	
380043	4			<10	
380044	4			<10	
380045	4			<10	
380046	8			<10	
380047	8			<10	
380048	8			<10	
380049	6			<10	
380050	6			<10	
380050 Rpt	6			<10	
380051	4			<10	
380052	6			<10	
380053	6			<10	
380053 Rpt	8			<10	
380054	16			<10	
380055	116	62	982	<10	
380056	14			<10	
380057	10			<10	
380058	10			<10	
380059	12			<10	
380060	12			<10	
380061	10			<10	
380062	50	44		80	
380063	40			200	CHINAMENS HILL
380064	54			30	

Reference No: P52226 **ATTN: G McDONALD**

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
380065	44	32		20
380065 Rpt	60			20
380066	14			<10
380067	22			30
380068	20			60
380069	12			<10
380070	50			70
380097	72	14	22	<10
380098	56			20
380102	18	36		<10
380102 Rpt	32			10
380106	10			<10
380107	10			<10
380108	10			<10
380109	12			<10
380110	10			<10
380111	10			<10
380112	8			<10
380113	12			<10
380114	54			<10
380115	30			10
380116	22			<10
380117	14			<10
380118	14			<10
380119	36			10
380120	14			<10
380120 Rpt	16			20
380121	38			30
380122	18			<10
380124	12			10
380125	14			<10
380126	14			<10
380127	6			<10
380128	12			20
380128 Rpt	12			40
380129	18			10
380130	18			<10
380131	12			<10
380132	36	42		<10
380133	22			<10
380134	4			<10
380135	10			<10
380136	36			<10
380137	26			<10
380138	6			<10
380139	6			<10
380139 Rpt	12			<10
380140	16			<10
380141	22			30

CHINAMENS HILL

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm	
Detn Limit	1	1	1	10	
380142	8			<10	CHINAMENS HILL
380143	36	22		90	
380533	10			<10	
380534	12			<10	
380535	110	220		<10	
380536	6			<10	
380537	14			<10	
380538	10			<10	
380539	12			<10	
380542	14			<10	
380543	10			<10	
380544	16			<10	
380545	10			<10	
380546	14			30	

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
380547	8			10
380548	10	8		<10
380548 Rpt	16			<10
380549	8			<10
380550	10			<10
380551	8			<10
380552	8			<10
380553	24	40		<10
380554	16			<10
380555	14			<10
380556	18			<10
380557	10			10
380557 Rpt	10			<10
380558	10			10
380559	12			<10
380560	14			<10
380560 Rpt	12			<10
380561	24			<10
380562	12			<10
380563	20			<10
380564	14			<10
380565	18			<10
380566	16			<10
380567	18			<10
380568	4			<10
380569	4			<10
380570	<1			<10
380571	4			<10
380572	4			<10
380573	20			<10
380574	4			<10
380575	6			<10
380576	8			<10
380577	120			220
380578	16			30
380578 Rpt	12			30
380579	22			10
380580	12			40

MATHINNA

****

M Implies this result reported in ppm

Au, Au(R1), Au(R2),
Technique - Fire Assay on a 50 gram charge followed by solvent extraction

As,
Technique - AAS

END OF REPORT

MinLab

329300

MINCULTURE LABORATORIES PTY LTD ACN 036 980 174 TRUSTEE FOR THE MINLAB UNIT TRUST TRADING AS MINLAB

18A Denninup Way
MALAGA WA 6062
Tel: (09) 249 5277
Fax: (09) 249 5323

257A Forrest Street
KALGOORLIE WA 6430
Tel: (090) 21 5664
Fax: (090) 91 2200

Lot 484 Criddle St
MT MAGNET WA 6638
Tel: (099) 634 532
Fax: (099) 634 531

ANALYTICAL REPORT

Reference No: P60304

Date: 18 MAR 95

AREA COVERED : MATHINNA

SAMPLE TYPE : SUB-SURFACE SOIL

Samples Received: 14 MAR 95
Order Number :
Submission Sheet: K9410C
Project Number : FINGAL-
Samples in Batch: 18

THIS REPORT HAS BEEN PREPARED FOR

RESOLUTE RESOURCES LIMITED

AND SHOULD BE READ IN CONJUNCTION WITH THE FINAL PAGE

Authorised by: _____
(A.J. Ferguson)

ATTN: G McDONALD
THE RESOLUTE SAMANTHA GROUP
MANGANA RD
FINGAL TAS 7214

Reference No: P60304 ATTN: G McDONALD Page: 1

	Au ppb	Au(R1) ppb	As ppm
Detn Limit	1	1	10
379841	10		<10
379842	16	8	20
379843	12		<10
379844	8		<10
379845	10		<10
379846	12		<10
379847	4		<10
379848	8		<10
379849	18		<10
379850	16		50
379851	8		20
379851 Rpt	3		20
379852	16		50
379853	14		20
379853 Rpt	12		20
379854	24		30
379855	12		10
379856	8	4	10

****

Au, Au(RI),
Technique - Fire Assay on a 50 gram charge followed by solvent extraction

As,
Technique - AAS

END OF REPORT

329303

MinLab

MINCULTURE LABORATORIES PTY LTD ACN 008 960 174 TRUSTEE FOR THE MINLAB UNIT TRUST TRADING AS MINLAB

18A Denninup Way
MALAGA WA 6062
Tel: (09) 249 5277
Fax: (09) 249 5323

257A Forrest Street
KALGOORLIE WA 6430
Tel: (090) 21 5664
Fax: (090) 91 2200

Lot 484 Criddle St
MT MAGNET WA 6638
Tel: (099) 634 532
Fax: (099) 634 531

ANALYTICAL REPORT

Reference No: P60003

Date: 10 JAN 95

Samples Received: 03 JAN 95
Order Number : K9411A
Project Number : N/A
Samples in Batch: 248

AREA COVERED MATHINNA, BLACKBOYS RIDGE

SAMPLE TYPE: SUB-SURFACE SOIL, AUGERED SUB-SURFACE SOIL

THIS REPORT HAS BEEN PREPARED FOR

RESOLUTE RESOURCES LTD

AND SHOULD BE READ IN CONJUNCTION WITH THE FINAL PAGE

Authorised by: A Ferguson
(A.J. Ferguson)

ATTN: G McDONALD
RESOLUTE RESOURCES LTD
MANGANA RD
FINGAL TAS 7214

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm	
Detn Limit	1	1	1	10	
376219	6			80	
376220	6			<10	
376221	10			40	
376222	20	18	18	80	
376223	8			<10	
376223 Rpt	8			<10	
376224	28			50	
376225	22			<10	
376226	16			100	
376226 Rpt	16			80	MATHINNI
376227	24	18	18	<10	
376228	16			110	(ALGER)
376229	16			120	
376230	6			<10	
376231	14			<10	
376232	32	22	22	<10	
376233	8			30	
376234	6			260	
376235	12			30	
376236	2			<10	
376237	12			<10	
376238	6			130	

RIDGE

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10

RIDGE

380451	3			150
380452	6			30
380453	9	14		70
380454	14			160
380455	24			120
380456	14			<10
380456 Rpt	10			30
380457	4			30
380458	4			10
380459	10			100
380460	24	18	20	110
380461	10			40
380462	8			60
380463	8			40
380464	4			50
380465	2			<10
380465 Rpt	<1			<10
380466	4			10

MATHINNA

AUGER)

RIDGE

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10

DGE

379937	12			40
379938	24	22		100
379939	38	36	34	160
379940	12			70
379941	6			30
379942	8			100
379942 Rpt	10			90
379943	42	34	36	90
379944	26			40
379945	18			50

17/91
MATHINNA
(AUGER)

Reference No: P60003 **ATTN: G McDONALD** Page: 6

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm	
Detn Limit	1	1	1	10	
379946	12			40	
379947	6			<10	
379948	4			20	
379949	6			10	MATHINNA
379950	16			390	
379951	14			220	(AUGER)
379952	16			80	
379953	10			20	
379953 Rpt	4			20	
379954	6			30	
379955	8	8		30	

****

Au, Au(R1), Au(R2),
Technique - Fire Assay on a 50 gram charge followed by solvent extraction

As,
Technique - AAS

END OF REPORT

MinLab

329309

MINCULTURE LABORATORIES PTY LTD ACN 008 960 174 TRUSTEE FOR THE MINLAB UNIT TRUST TRADING AS MINLAB

18A Denninup Way
MALAGA WA 6062
Tel: (09) 249 5277
Fax: (09) 249 5323

257A Forrest Street
KALGOORLIE WA 6430
Tel: (090) 21 5664
Fax: (090) 91 2200

Lot 484 Criddle St
MT MAGNET WA 6638
Tel: (099) 634 532
Fax: (099) 634 531

ANALYTICAL REPORT

Reference No: P60000

Date: 09 JAN 95

Samples Received: 03 JAN 95
Order Number : K9412
Project Number : N/A
Samples in Batch: 201

AREA COVERED : NIAPUNNE

SAMPLE TYPE : AUGER SUB-SURFACE SOIL

THIS REPORT HAS BEEN PREPARED FOR

RESOLUTE RESOURCES LTD

AND SHOULD BE READ IN CONJUNCTION WITH THE FINAL PAGE

Authorised by: A.J. Ferguson
(A.J. Ferguson)

ATTN: G McDONALD
RESOLUTE RESOURCES LTD
MANGANA RD
FINGAL TAS 7214

Reference No: P60000 **ATTN: G McDONALD**

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
379956	30			80
379957	4			20
379958	38			<10
379959	52	40	44	40
379960	40			20
379961	268	92	78	10
379962	22			30
379963	10			<10
379964	10			<10
379964 Rpt	6			<10
379965	8			<10
379966	10			<10
379967	18			40
379968	42			50
379969	18			30
379970	10			10
379971	10			<10
379972	16			<10
379972 Rpt	14			<10
379973	26			10
379974	20			50
379975	8			<10
379976	72			220
379977	16			<10
379978	6			<10
379979	6			<10
379980	8			30
379981	32			<10
379982	24			90
379983	98	20	12	<10
379984	16			10
379985	4			<10
379986	6			10
379987	46			20
379988	14			20
379989	4			30
379990	18			30
379991	20	10	8	<10
379992	2			<10
379993	6			<10
379994	4			<10
379994 Rpt	4			<10
379995	2			<10
379995 Rpt	2			<10
379996	10			<10
379997	8			<10
379998	<1			<10
379999	2			<10
380000	2			<10
376239	6			<10
376240	6			10
376241	2			20

Reference No: P60000 **ATTN: G McDONALD** Page: 2

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
376242	2			20
376243	2			<10
376244	20	14		<10
376245	4			<10
376245 Rpt	2			<10
376246	14			<10
376247	<1			10
376248	<1			10
376249	<1			<10
376250	2			20
376251	<1			<10
376252	2			<10
376253	16	4		<10
376254	10			20
376255	4			30
376255 Rpt	4			20
376256	2			10
376257	2			30
376258	6			110
376259	2			30
376260	14			30
376261	14	14		80
376262	4			40
376263	2			70
376264	4			20
376265	2			30
376266	8			30
376267	4			20
376268	2			40
376269	6			70
376269 Rpt	2			70
376270	4			50
376271	4			30
376272	2			30
376273	6			60
376274	4			60
376275	6			70
376276	8			80
376276 Rpt	10			70
376277	8			60
376278	2			<10
376279	4			<10
376280	8			20
376281	10			<10
376282	6			<10
376283	2			<10
376284	6			<10
376285	20	8		20
376286	8			<10
376286 Rpt	8			<10
376287	8			10
376287 Rpt	2			10

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm	
Detn Limit	1	1	1	10	
376288	12			10	
376289	8			<10	
376290	6			20	
376291	22			30	
376292	32	8	6	<10	
376293	10			<10	
376294	6			<10	
376295	6			<10	
376301	10			140	
376302	4			10	
376303	6			20	
376304	8			10	
376305	6			40	
376306	14	12		80	
376307	8			50	
376308	8			30	
376309	16			30	MATTINNA
376310	4			40	
376310 Rpt	8			30	(ALGER)
376311	2			20	
376312	10			60	
376313	4			20	
376314	4			20	
376315	4			40	
376316	12	8		50	
376317	6			20	
376318	6			60	
376319	6			20	
376320	8			40	
376320 Rpt	6			30	
376321	4			20	
376322	4			10	
376323	6			<10	
376324	6			60	
376325	2			<10	
376325 Rpt	4			<10	
376326	10	8		<10	
380301	6			<10	
380302	8			<10	
380303	6			10	
380303 Rpt	6			<10	
380304	6			20	
380305	6			<10	
380306	8			10	
380307	12			20	
380308	6			<10	
380309	4			20	
380310	6			<10	
380311	4			<10	
380312	4			10	
380313	4			20	
380314	8			10	

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm	
Detn Limit	1	1	1	10	
380315	4			<10	
380316	2			<10	
380317	6			<10	
380318	4			<10	
380319	8			<10	
380320	<1			<10	
380320 Rpt	<1			<10	
380321	<1			<10	
380322	<1			<10	
380323	<1			<10	
380324	10	8	6	<10	
380325	34	1	1	<10	
380326	2	2	2	<10	
380327	<1			10	
380328	<1			<10	
380329	<1			<10	
380330	2			<10	
380330 Rpt	2			<10	
380331	4			<10	
380332	<1			<10	AA ETHANOL
380333	<1			<10	
380334	<1			<10	
380335	<1			<10	AUGER
380336	<1			<10	
380337	<1			<10	
380338	2			<10	
380339	<1			<10	
380467	<1			<10	
380468	8			40	
380468 Rpt	10			<10	
380469	2			<10	
380470	2			<10	
380471	<1			<10	
380472	52	46	44	80	
380473	8			10	
380474	6			10	
380475	4			20	
380476	4			20	
380477	4			30	
380478	2			<10	
380479	10	10		10	
380480	6			<10	
380481	<1			<10	
380482	6			40	
380483	2			<10	
380483 Rpt	4			<10	
380484	2			<10	
380485	2			<10	
380486	2			<10	
380487	6			<10	
380488	36			<10	
380489	54	12	12	10	

Reference No: P60000 **ATTN: G McDONALD** Page: 5

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
380490	6			<10
380491	10			20
380492	6			<10
380493	2			<10
380494	20			<10
380495	20			30
380495 Rpt	24			20
380496	2			10
380497	6			<10
380498	2	54	34	<10
380499	30	8	8	<10
380500	8	4	8	<10

MATHINNA
(HUGER)

****

Au, Au(R1), Au(R2),
Technique - Fire Assay on a 50 gram charge followed by solvent extraction

As,
Technique - AAS

END OF REPORT

MinLab

329316

MINCULTURE LABORATORIES PTY LTD ACN 008 980 174 TRUSTEE FOR THE MINLAB UNIT TRUST TRADING AS MINLAB

18A Denninup Way
MALAGA WA 6062
Tel: (09) 249 5277
Fax: (09) 249 5323

257A Forrest Street
KALGOORLIE WA 6430
Tel: (090) 21 5664
Fax: (090) 91 2200

Lot 484 Criddle St
MT MAGNET WA 6638
Tel: (099) 634 532
Fax: (099) 634 531

ANALYTICAL REPORT

Reference No: P60017

Date: 17 JAN 95

Samples Received: 12 JAN 95
Order Number : K9413
Project Number : N/A
Samples in Batch: 84

PREMISES : [illegible], BUCKLANDS HILL

SAMPLE TYPE: SUB-SURFACE SOIL
AUGER SUB-SURFACE SOIL

THIS REPORT HAS BEEN PREPARED FOR

RESOLUTE RESOURCES LIMITED

AND SHOULD BE READ IN CONJUNCTION WITH THE FINAL PAGE

Authorised by: _____
(A.J. Ferguson)

ATTN: G McDONALD
RESOLUTE RESOURCES LIMITED
MANGANA RD
FINGAL TAS 7214

Reference No: P60017 **ATTN: G McDONALD** Page: 1

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10

HILL

376327	10		<10
376327 Rpt	12		<10
376328	12		<10
376329	10		<10
376330	12		<10
376332	12		<10
376333	16		<10
376334	12		<10
376335	14		30
376336	16		<10
376338	10		<10
376339	12		<10
376340	16		<10
376341	10		<10
376342	12		<10
376343	16		<10
376344	14		<10
376345	14		<10

MATHINNA

AUGER)

Reference No: P60017 **ATTN: G McDONALD** Page: 2

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm	
Detn Limit	1	1	1	10	
376345 Rpt	16			<10	
376346	12			<10	
376346 Rpt	10			<10	
376347	14	12	12	<10	
376348	12			<10	
376349	10			<10	
376350	10			<10	
376351	14			<10	
376352	14			<10	
376353	10			<10	
376354	12			<10	
376355	10			<10	
376356	10			<10	
376357	10			<10	
376358	12			<10	
376359	12			<10	
376360	14	10	10	<10	MATHINNA
376361	12			<10	
376362	8			<10	
376363	10			<10	AUGER
376364	12			<10	
376365	10			<10	
376366	16			<10	
376367	8			<10	
376367 Rpt	8			<10	
376368	20	22	20	<10	
376369	18			<10	
376370	14			<10	
376371	14			<10	
376372	16			<10	
376373	14			<10	
376374	12			<10	
376375	10			<10	
376376	10			<10	
376376 Rpt	10			<10	
376377	8			<10	
376378	12			<10	
376379	16			30	
376380	10			<10	
376381	12	12	10	<10	

****

Au, Au(R1), Au(R2),
Technique - Fire Assay on a 50 gram charge followed by solvent extraction

As,
Technique - AAS

END OF REPORT

FAXED 6-2-

329320

MinLab

MINCULTURE LABORATORIES PTY LTD ACN 008 960 174 TRUSTEE FOR THE MINLAB UNIT TRUST TRADING AS MINLAB

18A Denninup Way
MALAGA WA 6062
Tel: (09) 249 5277
Fax: (09) 249 5323

257A Forrest Street
KALGOORLIE WA 6430
Tel: (090) 21 5664
Fax: (090) 91 2200

Lot 484 Criddle St
MT MAGNET WA 6638
Tel: (099) 634 532
Fax: (099) 634 531

ANALYTICAL REPORT

Reference No: P60067

Date: 06 FEB 95

AREA SAMPLED : WEST [illegible]

SAMPLE TYPE : SUB-SURFACE SOIL

Samples Received: 30 JAN 95
Order Number : K9415A
Project Number : N/A
Samples in Batch: 201

THIS REPORT HAS BEEN PREPARED FOR

RESOLUTE RESOURCES LIMITED

AND SHOULD BE READ IN CONJUNCTION WITH THE FINAL PAGE

Authorised by: A.C. Ferguson
(A.J. Ferguson)

ATTN: G McDONALD
RESOLUTE RESOURCES LIMITED
MANGANA RD
FINGAL TAS 7214

Reference No: P60067 **ATTN: G McDONALD** Page: 1

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
376382	64	73	74	240
376383	34			110
376384	28			20
376385	20			20
376386	8			<10
376387	8			<10
376388	4			<10
376389	18			<10
376390	4			<10
376391	24			<10
376392	134	165	169	220
376393	24			10
376394	22			<10
376395	24			30
376396	22			<10
376397	16			<10
376398	14			<10
376399	20			<10
376399 Rpt	8			<10
376400	8			<10
376400 Rpt	10			<10
376401	8			<10
376402	16			50
376403	<1			<10
376404	2			<10
376405	<1			<10
376406	16	5	6	<10
376407	4			<10
376408	16			10
376408 Rpt	6			<10
376409	22			<10
376410	20			10
376411	70			20
376412	6			<10
376413	8			10
376414	12	12	13	<10
376415	8			<10
376416	4			<10
376417	<1			<10
376418	<1			<10
376418 Rpt	<1			<10
376419	4			<10
376420	8			<10
376421	6			<10
376422	<1			<10
376423	2			<10
376424	<1			<10
376425	<1			<10
376426	<1			<10
376427	2			30
376428	<1			10
376429	6			<10

Reference No: P60067 **ATTN: G McDONALD** Page: 2

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm	
Detn Limit	1	1	1	10	
376430	12			<10	
376431	12			20	
376431 Rpt	14			40	
376432	<1			<10	
376433	4			<10	
376434	14			<10	
376435	4			<10	
376436	10			<10	
376437	12			10	
376438	32	55	32	<10	
376439	10			<10	
376440	4			<10	
376441	2			<10	
376442	28			10	
376442 Rpt	18			<10	
376443	<1			<10	
376444	2			<10	
376445	6			10	
376446	4			<10	
376447	6			<10	
376448	26	38	15	<10	CHIBOUGAMAU AREA
376449	12			<10	
376449 Rpt	20			<10	
376450	16			<10	
376451	18			<10	
376452	6			<10	
376453	24			30	
376453 Rpt	20			30	
376454	2			<10	
376455	2			<10	
376456	2			<10	
376457	14			10	
376458	6			<10	
376459	14			<10	
376460	6			<10	
376461	6			<10	
376462	8			10	

Reference No: P60067 **ATTN: G McDONALD**

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
376493	6			<10
376494	106			<10
376495	60			<10
376496	14			<10
376497	16			<10
376498	14			<10
376499	6			<10
376499 Rpt	6			<10
376500	8			<10
380369	4			<10
380370	6			<10
380371	10			<10
380372	26			<10
380373	36			<10
380374	37 20	53		<10
380375	18			<10
380376	6			<10
380377	16			<10
380378	2			<10
380379	2			<10
380380	8			<10
380381	4			<10
380382	32 78	10	8	<10
380383	28			<10
380384	50			<10
380385	16			<10
380386	4			<10
380387	6			<10
380387 Rpt	6			<10
380388	6			<10
380389	22			<10
380390	4			<10
380390 Rpt	4			<10
380391	10			<10

NATHANN

Reference No: P60067 **ATTN: G McDONALD** Page: 4

		Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm	
Detn Limit		1	1	1	10	
380392	47	104	12	26	<10	—

****

Au, Au(R1), Au(R2),
Technique - Fire Assay on a 50 gram charge followed by solvent extraction

As,
Technique - AAS

END OF REPORT

329326

MinLab

MINCULTURE LABORATORIES PTY LTD ACN 008 960 174 TRUSTEE FOR THE MINLAB UNIT TRUST TRADING AS MINLAB

18A Denninup Way
MALAGA WA 6062
Tel: (09) 249 5277
Fax: (09) 249 5323

257A Forrest Street
KALGOORLIE WA 6430
Tel: (090) 21 5664
Fax: (090) 91 2200

Lot 484 Criddle St
MT MAGNET WA 6638
Tel: (099) 634 532
Fax: (099) 634 531

ANALYTICAL REPORT

Reference No: P60186

Date: 23 FEB 95

PREP CODE : INITIAL

SAMPLE TYPE : AUGERED SUB-SURFACE SOIL

Samples Received: 20 FEB 95
Order Number : K9416A
Project Number : TAS
Samples in Batch: 28

THIS REPORT HAS BEEN PREPARED FOR

RESOLUTE RESOURCES LIMITED

AND SHOULD BE READ IN CONJUNCTION WITH THE FINAL PAGE

Authorised by: A Ferguson
(A.J. Ferguson)

ATTN: G McDONALD
RESOLUTE RESOURCES LIMITED
MANGANA RD
FINGAL TAS 7214

Reference No: P60186 **ATTN: G McDONALD** Page: 1

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
379025	2			<10
379026	2			<10
379033	6			<10
379034	6			<10
379038	10	8		<10
379039	6			<10
379043	6			<10
379045	14	9		<10
379053	4			<10
379099	6			<10
379099 Rpt	6			<10
379065	34			60
379069	18			20
379076	6			20
379084	14			<10

****

Au, Au(R1), Au(R2),
Technique - Fire Assay on a 50 gram charge followed by solvent extraction

As,
Technique - AAS

END OF REPORT

329329

MinLab

MINCULTURE LABORATORIES PTY LTD ACN 008 960 174 TRUSTEE FOR THE MINLAB UNIT TRUST TRADING AS MINLAB

18A Denninup Way
MALAGA WA 6062
Tel: (09) 249 5277
Fax: (09) 249 5323

257A Forrest Street
KALGOORLIE WA 6430
Tel: (090) 21 5664
Fax: (090) 91 2200

Lot 484 Criddle St
MT MAGNET WA 6638
Tel: (099) 634 532
Fax: (099) 634 531

ANALYTICAL REPORT

Reference No: P60187

Date: 24 FEB 95

AREA COVERED : MATHINNA

SAMPLE TYPE : AUGERED SUB-SURFACE SOIL

Samples Received: 20 FEB 95
Order Number : K9416B
Project Number : TAS
Samples in Batch: 181

THIS REPORT HAS BEEN PREPARED FOR

RESOLUTE RESOURCES LIMITED

AND SHOULD BE READ IN CONJUNCTION WITH THE FINAL PAGE

Authorised by: A Ferguson
(A.J. Ferguson)

ATTN: G McDONALD
RESOLUTE RESOURCES LIMITED
MANGANA RD
FINGAL TAS 7214

Reference No: P60187 **ATTN: G McDONALD**

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
379022	6			20
379023	<1			<10
379024	4			<10
379027	4			<10
379028	8			<10
379029	4			<10
379030	2			<10
379031	14	12		30
379032	10			<10
379035	4			<10
379036	8			10
379037	110	12	20	<10
379040	14			10
379040 Rpt	14			<10
379041	14			<10
379042	12			<10
379044	2			20
379046	14			60
379046 Rpt	18			50
379047	8			50
379048	4			10
379049	6			30
379049 Rpt	8			30
379050	4			<10
379051	4			20
379052	2			<10
379054	10			<10
379055	14	9		40
379056	18			90
379057	42			220
379058	38	28	25	110
379059	14			130
379060	20			50
379061	8			30
379062	10			20
379063	10			60

Reference No: P60187 **ATTN: G McDONALD** Page: 2

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
379064	4			10
379066	8			30
379067	12			10
379068	2			30
379070	14			30
379071	6			<10
379072	8	4		<10
379073	6			<10
379074	4			<10
379075	6			<10
379077	2			<10
379078	6			30
379079	4			<10
379080	4			40
379080 Rpt	8			30
379081	20	12		70
379082	18			40
379083	12			10
379085	8			20
379086	6			10
379087	16			40
379088	20			70
379089	14			30
379090	16			40
379091	10			20
379092	6			20
379093	2			10
379094	<1			<10
379095	30	21	26	40
379096	40			50
379097	4			10
379098	14			<10
379098 Rpt	12			<10
379100	14			<10
379101	12			<10
379102	36			20
379102 Rpt	42			30
379103	16			10
379104	28			70
379105	20			20
379106	64			270
379107	60	40	41	40
379108	20			20
379109	14			70
379110	32			270
379111	44			30
379112	16			<10
379113	14			<10
379113 Rpt	18			<10
379114	14			<10
379115	12			<10
379116	8			<10

Reference No: P60187 ATTN: G McDONALD

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
379117	62	13	17	<10
379118	30			10
379119	22			<10
379120	26			20
379121	42			60
379122	26			<10
379122 Rpt	26			<10
379123	14			20
379124	18			20
379125	2			<10
379126	16			50
379127	6			20
379128	6			10
379129	10			40
379130	14			20
379131	80	62	75	160
379132	58			470
379133	24			10
379133 Rpt	24			<10
379134	8			<10
379135	6			190
379136	2			<10
379137	12			<10
379137 Rpt	10			<10
379138	24			30
379139	30			180
379140	10			10
379141	2			<10
379142	24			<10
379143	22			10
379144	10			30
379145	58	36	35	50
379146	34			<10
379147	10			10
379148	8			<10
379148 Rpt	10			<10
379149	8			10
379150	10			40
379150 Rpt	6			10
379151	6			60
379152	14			30
379153	12			10
379154	22	6	8	20
379155	18			10
379156	8			<10
379157	10			<10
380249	10			20
380250	12			<10
380251	6			<10
380252	8			40
380253	12			20
380254	8			<10

Reference No: P60187 **ATTN: G McDONALD**

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
380255	12			<10
380256	18			70
380257	20			30
380258	74	22	45	50
380259	18			30
380260	60			70
380261	22			30
380262	26			40
380263	148	75		30
380263 Rpt	740			40
380264	20			30
380265	20			<10

****

Au, Au(R1), Au(R2),
Technique - Fire Assay on a 50 gram charge followed by solvent extraction

As,
Technique - AAS

END OF REPORT

MinLab

329335

MINCULTURE LABORATORIES PTY LTD ACN 008 980 174 TRUSTEE FOR THE MINLAB UNIT TRUST TRADING AS MINLAB

18A Denninup Way
MALAGA WA 6062
Tel: (09) 249 5277
Fax: (09) 249 5323

257A Forrest Street
KALGOORLIE WA 6430
Tel: (090) 21 5664
Fax: (090) 91 2200

Lot 484 Criddle St
MT MAGNET WA 6638
Tel: (099) 634 532
Fax: (099) 634 531

ANALYTICAL REPORT

Reference No: P60225

Date: 28 FEB 95

AREA SAMPLED : MT MAGNET

SAMPLE TYPE : AUGER SILCRETE SOIL

Samples Received: 27 FEB 95
Order Number : K9417
Project Number : TAS
Samples in Batch: 113

THIS REPORT HAS BEEN PREPARED FOR

RESOLUTE RESOURCES LIMITED

AND SHOULD BE READ IN CONJUNCTION WITH THE FINAL PAGE

Authorised by: _____
(A.J. Ferguson)

ATTN: G McDONALD
RESOLUTE RESOURCES LIMITED
MANGANA RD
FINGAL TAS 7214

Reference No: P60225 ATTN: G McDONALD

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
379158	16			<10
379159	14			<10
379160	8			<10
379161	22			<10
379162	38	550	42	<10
379163	14			20
379163 Rpt	12			20
379164	26			70
379165	20			30
379166	14			20
379167	32			40
379168	40			20
379169	22			20
379170	18			10
379171	54	48	44	30
379172	30			40
379173	16			<10
379174	26			40
379174 Rpt	24			20
379175	4			<10
379176	8			<10
379177	10			<10
379178	12			<10
379179	8			<10
379180	6			50
379181	4			<10
379182	6			<10
379183	8			<10
379183 Rpt	8			<10
379184	8			<10
379185	14			<10
379185 Rpt	12			<10
379186	12			<10
379187	14	36	16	10
379188	12			30
379189	8			10
379190	18			<10
379191	18			10
379192	16			10
379193	18			10
379194	18			10
379195	26	22	24	20
379196	24			60
379197	8			<10
379198	10			10
379199	4			<10
379200	2			<10
379201	6			<10
379202	10			20
379203	16			30
379204	22			10
379204 Rpt	24			10

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
379205	70	58	76	40
379206	34			<10
379207	12			<10
379208	18			10
379209	14			20
379210	38			30
379211	16			30
379212	6			30
379213	4			10
379214	10			50
379215	20			90
379216	10			<10
379217	40			<10
379218	30			<10
379218 Rpt	38			<10
379219	22			<10
379220	24	18	20	<10
379221	48			10
379222	12			<10
379223	18			<10
379224	4			<10
379225	4			<10
379226	26			100
379227	4			<10
379227 Rpt	4			<10
379228	16			40
379229	6			<10
379230	14			<10
379231	38			<10
379232	42	34	34	50
379233	6			<10
379234	32			10
379235	40			<10
379235 Rpt	32			<10
379236	24			<10
379237	26			10
379238	28			<10
379239	4			<10
379240	66	114	56	110
379241	8			70
379242	12			150
379243	6			<10
379244	16			<10
379245	60			10
379246	40			360
379247	22			20
379248	28			30
379249	18			10
379250	24			<10
379251	12			<10
379252	16			40
379253	26			150

Reference No: P60225 **ATTN: G McDONALD**

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
379253 Rpt	22			150
379254	24			40
379255	34			60
379256	28			<10
379257	12			<10
379257 Rpt	12			<10
379258	16			<10
379259	50	42	42	<10
379260	26			<10
379261	108			<10
379262	82			<10
379263	76			140
379264	72			<10
379265	38			<10
379266	30	14	38	100
379267	8			<10
379268	8			<10
379268 Rpt	8			<10
379269	8			<10
379270	130			<10

****

Au, Au(R1), Au(R2),
Technique - Fire Assay on a 50 gram charge followed by solvent extraction

As,
Technique - AAS

END OF REPORT

329340

MinLab

MINCULTURE LABORATORIES PTY LTD ACN 008 980 174 TRUSTEE FOR THE MINLAB UNIT TRUST TRADING AS MINLAB

18A Denninup Way
MALAGA WA 6062
Tel: (09) 249 5277
Fax: (09) 249 5323

257A Forrest Street
KALGOORLIE WA 6430
Tel: (090) 21 5664
Fax: (090) 91 2200

Lot 484 Criddle St
MT MAGNET WA 6638
Tel: (099) 634 532
Fax: (099) 634 531

ANALYTICAL REPORT

Reference No: P60272

Date: 13 MAR 95

AREA COVERED : MATHINNA

SAMPLE TYPE : AUGERED SUB-SURFACE SOIL

Samples Received: 10 MAR 95
Order Number : 09418
Project Number : MATHINNA/MANGANA
Samples in Batch: 107

THIS REPORT HAS BEEN PREPARED FOR

RESOLUTE RESOURCES LIMITED

AND SHOULD BE READ IN CONJUNCTION WITH THE FINAL PAGE

Authorised by: R C Ferguson
(A.J. Ferguson)

ATTN: G McDONALD
RESOLUTE RESOURCES LIMITED
MANGANA RD
FINGAL TAS 7214

Reference No: P60272 ATTN: G McDONALD

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
379271	22			10
379272	24			110
379273	214	182	196	110
379274	28			80
379275	30			30
379276	22			10
379277	4			<10
379278	28	34		70
379279	6			10
379280	6			30
379281	10			10
379281 Rpt	16			10
379282	36			50
379283	202	206	234	210
379284	26			50
379285	26			70
379286	36			130
379286 Rpt	28			140
379287	72			210
379288	192	84	84	150
379289	40			50
379290	42			90
379291	18			10
379292	6			70
379293	30			70
379294	42			120
379295	34			140
379296	86			330
379297	78			140
379297 Rpt	78			140
379298	46			50
379299	30			90
379300	42			40
379301	14			100
379302	22			50
379303	50	56		160
379304	38			120
379305	32			210
379306	14			40
379307	22			80
379307 Rpt	10			80
379308	58			40
379309	44			80
379310	40			190
379311	24			90
379312	4.15M	5.11M	6.26M	<10
379313	4			<10
379314	20			20
379315	18			80
379316	22			60
379317	10	168		100
379318	24			60

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
379319	36			60
379320	54			190
379320 Rpt	62			180
379321	46			140
379322	12			40
379323	6			<10
379324	30			80
379325	24			90
379326	18	36		60
379327	14			50
379328	30			120
379329	14			80
379330	102	108	102	80
379331	30			60
379331 Rpt	30			50
379332	10			<10
379333	8			<10
379334	14			80
379335	14			10
379336	304	2.36M	380	320
379337	44			190
379338	22			190
379339	14			150
379339 Rpt	10			150
379340	94	64		60
379341	30			50
379342	38			<10
379343	28			70
379344	16			40
379345	42	30		90
379346	14			60
379347	12			50
379348	18			70
379349	22			60
379350	16			10
379351	66	32		70
379352	40			800
379352 Rpt	40			810
379353	38			120
379354	16			40
379355	26			100
379356	36			50
379356 Rpt	36			50
379357	26			60
379358	46			130
379359	26			120
379360	82			560
379361	54			70
379362	58			70
379363	20			30
379364	68			90
379365	44			100

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
379365 Rpt	46			100
379366	340	1.86M	224	210
379367	120			160
379368	18			10
379369	16			<10
379370	14			10
379371	16			10
379372	18			10
379373	156	46	72	10
379374	24			30
379375	58			90
379376	44			60
379377	10			10

****

M Implies this result reported in ppm

Au, Au(R1), Au(R2),
Technique - Fire Assay on a 50 gram charge followed by solvent extraction

As,
Technique - AAS

END OF REPORT

329345

MinLab

MINCULTURE LABORATORIES PTY LTD ACN 008 960 174 TRUSTEE FOR THE MINLAB UNIT TRUST TRADING AS MINLAB

18A Denninup Way
MALAGA WA 6062
Tel: (09) 249 5277
Fax: (09) 249 5323

257A Forrest Street
KALGOORLIE WA 6430
Tel: (090) 21 5664
Fax: (090) 91 2200

Lot 484 Criddle St
MT MAGNET WA 6638
Tel: (099) 634 532
Fax: (099) 634 531

ANALYTICAL REPORT

Reference No: P60964

Date: 30 MAY 95

PREP COURSE : MIN-HANS' CHROMITES +150

SAMPLE TYPE : FLUVIAL LOG-SURFACE SOIL

NOCK (EASTERN CHANNEL SAND)

Samples Received: 25 MAY 95
Order Number : K9421B
Project Number : TAS
Samples in Batch: 69

THIS REPORT HAS BEEN PREPARED FOR

THE RESOLUTE SAMANTHA GROUP

AND SHOULD BE READ IN CONJUNCTION WITH THE FINAL PAGE

Authorised by: A.J. Ferguson
(A.J. Ferguson)

ATTN: G McDONALD
THE RESOLUTE SAMANTHA GROUP
MANGANA RD
FINGAL TAS 7214

Reference No: P60964 **ATTN: G McDONALD** Page: 1

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm	
Detn Limit	1	1	1	10	
379444	5	6		20	
379444 Rpt	15			<10	
379445	6			10	
379446	7			<10	
379447	13			<10	
379448	15			20	
379449	7			40	
379450	8			20	
379451	19			40	
379452	17			90	
379453	36	37	38	60	
379454	55			150	
379455	9			40	
379456	5			20	
379457	6			10	
379458	7			20	
379459	10			20	
379460	6			<10	
379460 Rpt	5			<10	
379461	6			10	
379462	305	388	288	<10	
379463	75			240	
379464	22			40	
379465	12			40	
379466	14			<10	
379467	5			10	
379468	8			70	
379469	9			<10	
379470	12			30	
379471	11			<10	
379472	8			<10	
379473	1.22M	773	860	700	
379474	49			10	
379475	6			<10	
379476	6			<10	
379477	6			<10	
379477 Rpt	7			<10	
379478	10			<10	
379479	7			<10	
379479 Rpt	9			<10	
379480	17	10	20	150	
379481	7			<10	
379482	7			<10	
379483	10			20	
379484	18			<10	
379485	9			<10	
379486	4			<10	
379486 Rpt	4			10	
379487	2			<10	
380611	82			40	
380612	382			340	CHINAMENS HILL CHANNELS IN COSTEAN.
380613	1.82M	1.90M	1.79M	940	

****

M Implies this result reported in ppm

Au, Au(R1), Au(R2),
Technique - Fire Assay on a 50 gram charge followed by solvent extraction

As,
Technique - AAS

END OF REPORT

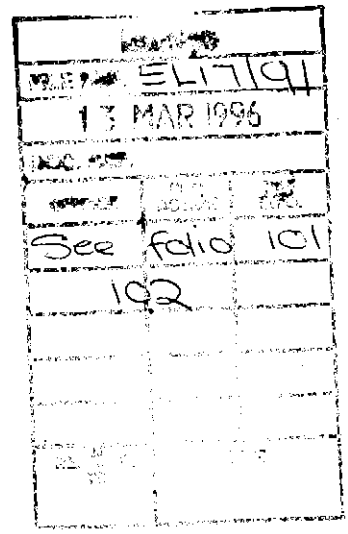
96-3843

320348 C/F

RESOLUTE SAMANTHA LIMITED

ANNUAL REPORT
1995

Volume 3/5



EL 17/91
"MATHINNA"

NO CARD

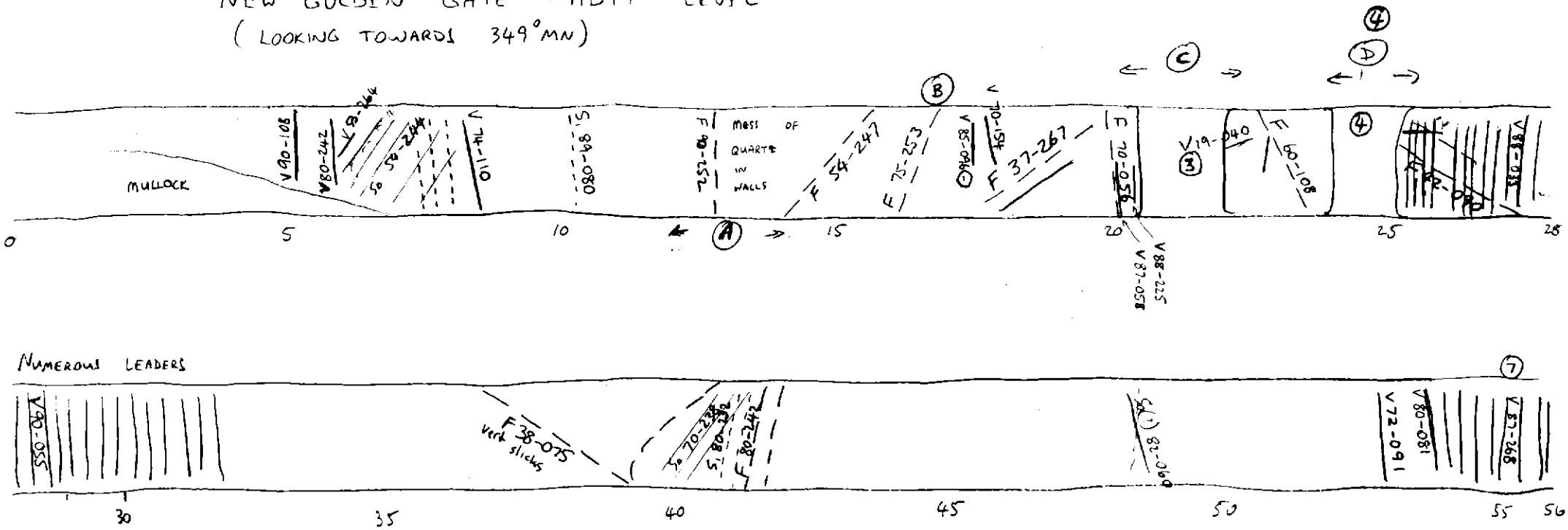
Grant MacDonald
February 1996
GM609:da

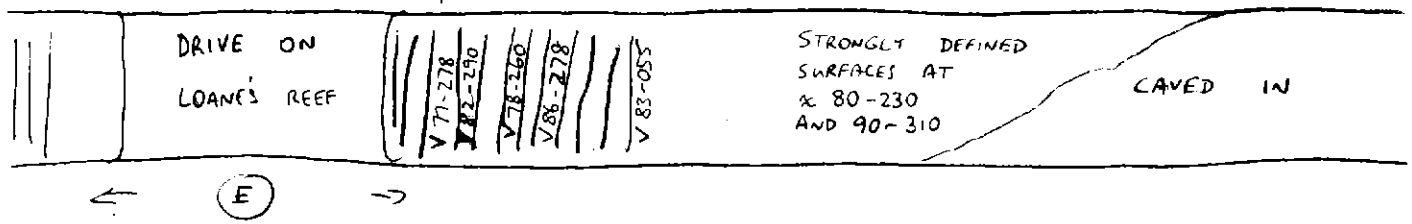
APPENDIX E

Geological Sections and Structural Data

NEW GOLDEN GATE - ADIT LEVEL

(LOOKING TOWARDS 349°MN)

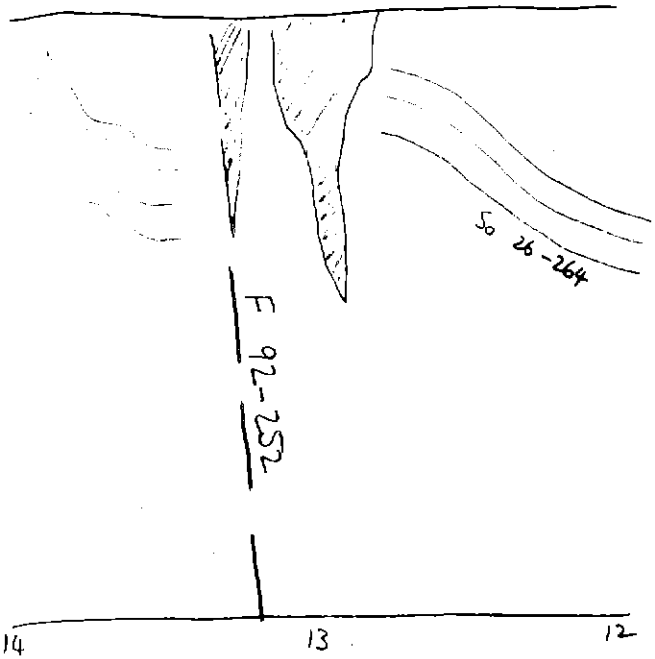




(4) is from LOANE'S REEF (?).

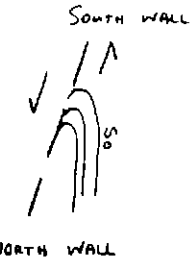
DOLLIED	SAMPLES		
No	Au	sulphides	
(1)	3mg	minor asp = py	
(2)	1mg		
(3)	–		
(4)	22cg 4mg	minor asp	
(5)	–		
(6)	–		
(7)	1cg 4mg	minor asp = py	
(8)	–	trace asp	
(9)	–	trace asp	
(10)	1 fg	trace asp	(small sample)
(11)	–	minor asp	
(12)	1 cg	minor asp	
(13)	4 cg 4mg	trace asp	
(14)	–	trace asp	

(A) SOUTH WALL SECTION (x 1:25)

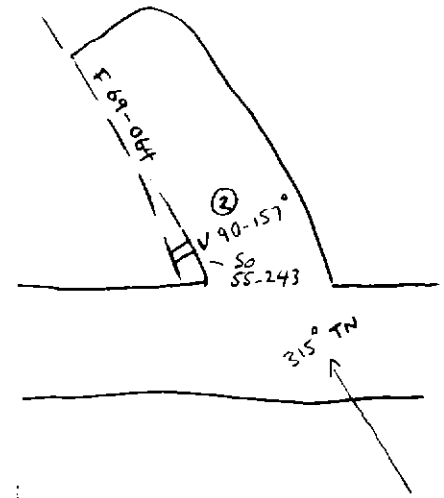


5 cm

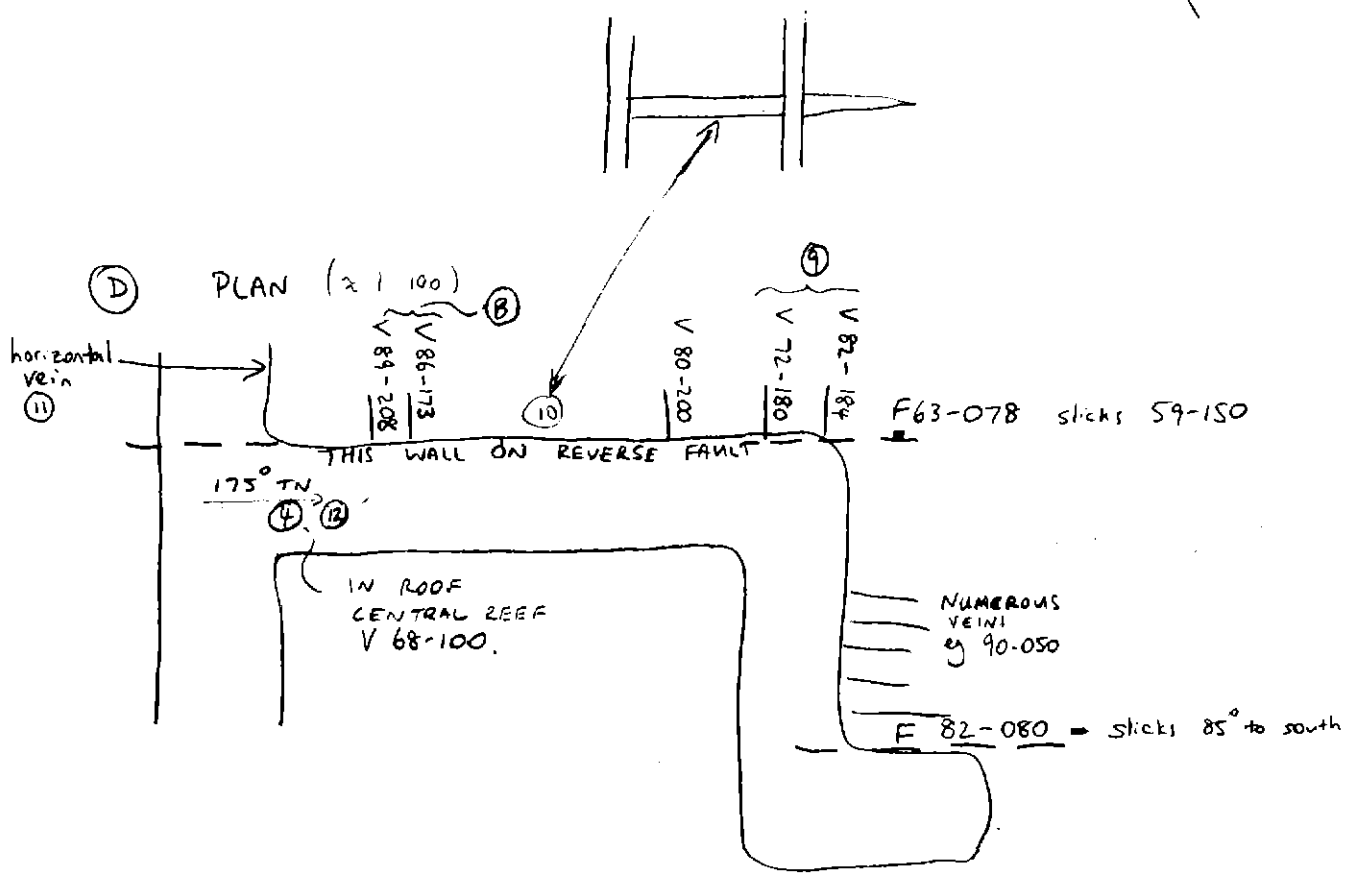
(B) PLAN



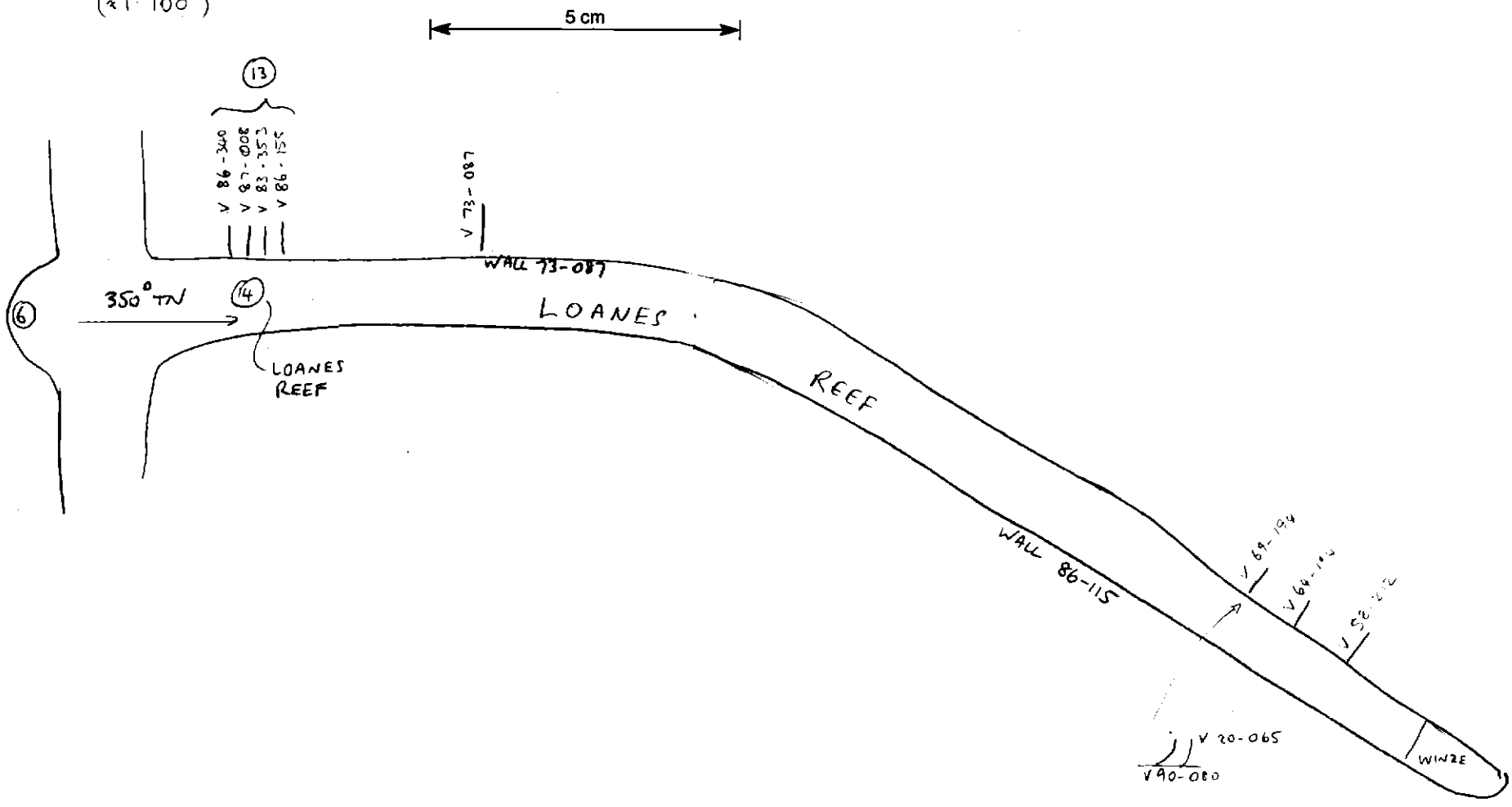
(C) PLAN (x 1:100)



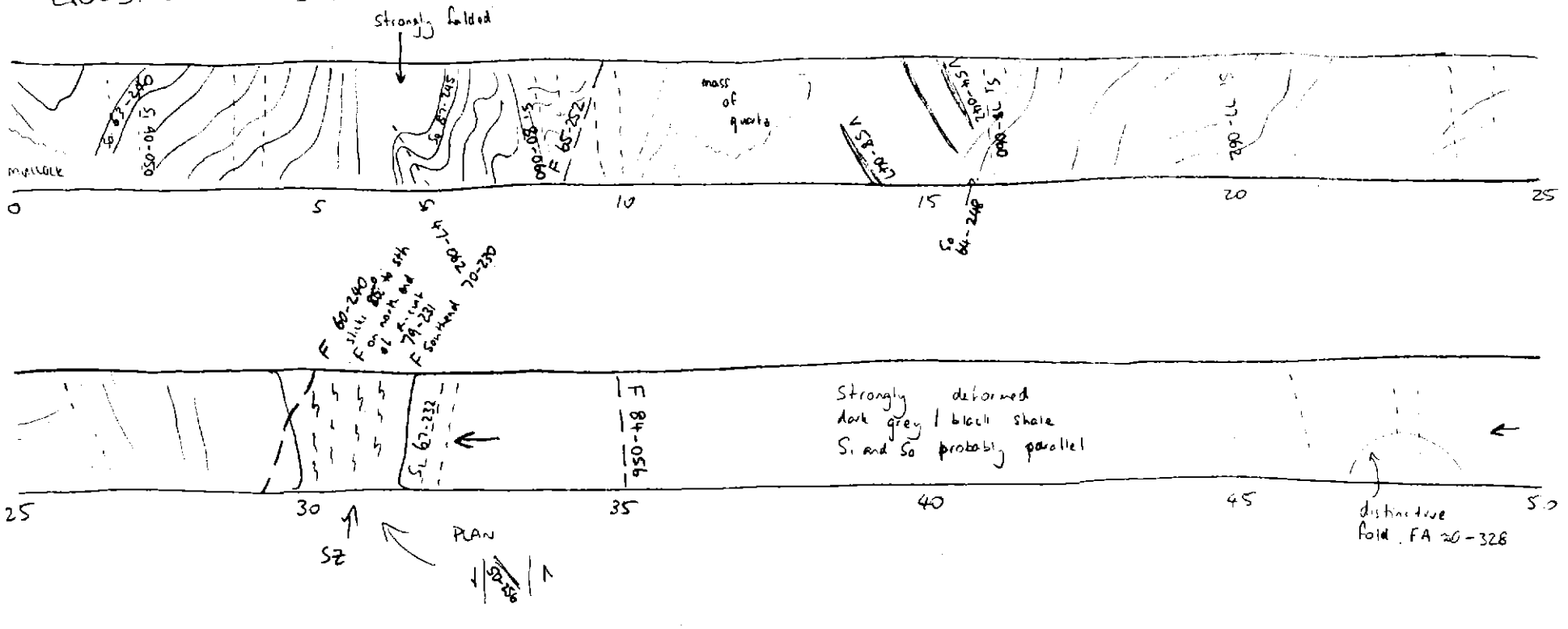
(D) PLAN (x 1:100)



E. PLAN
(x1·100)

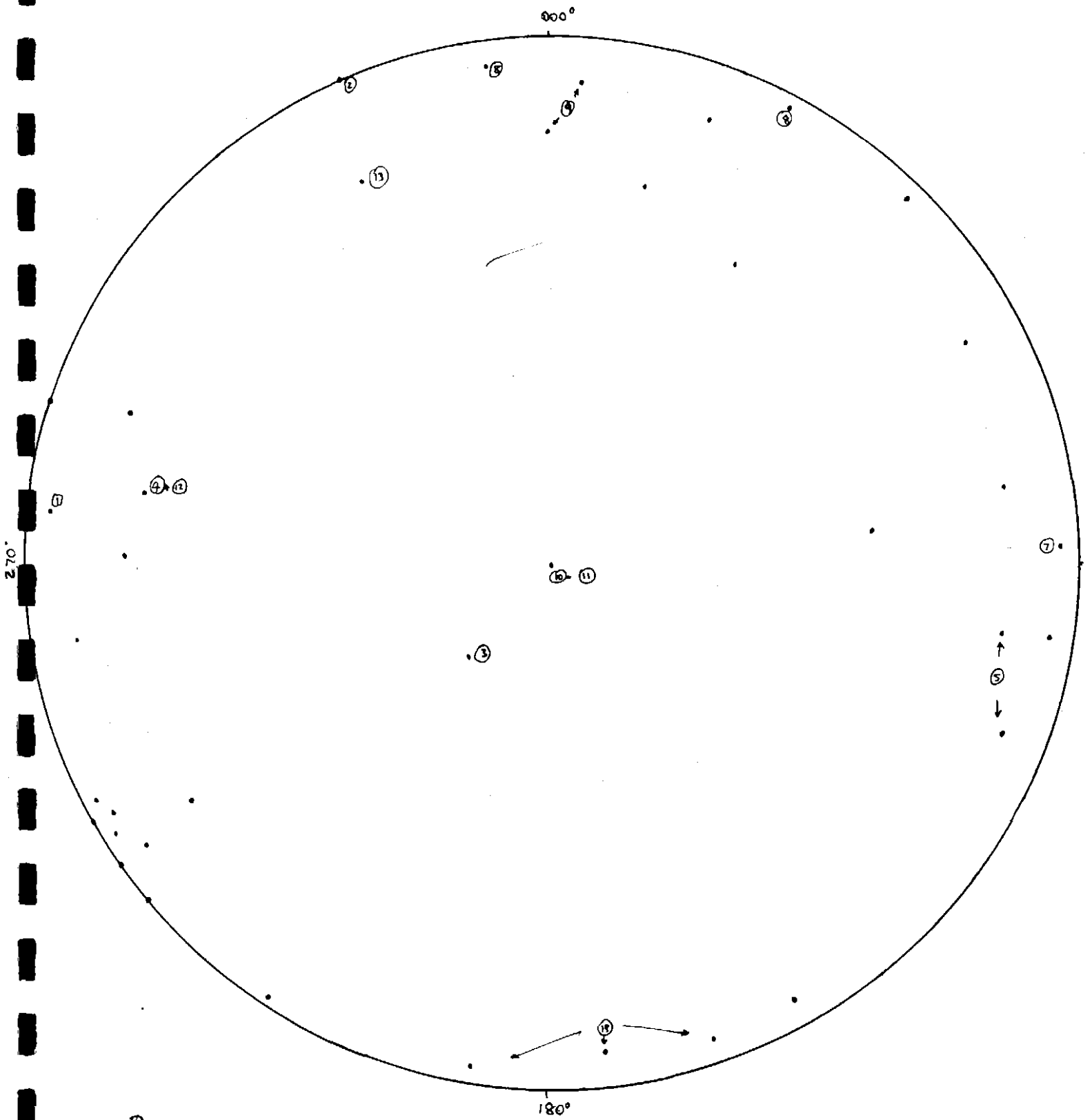


GOLDEN HINGES



329354

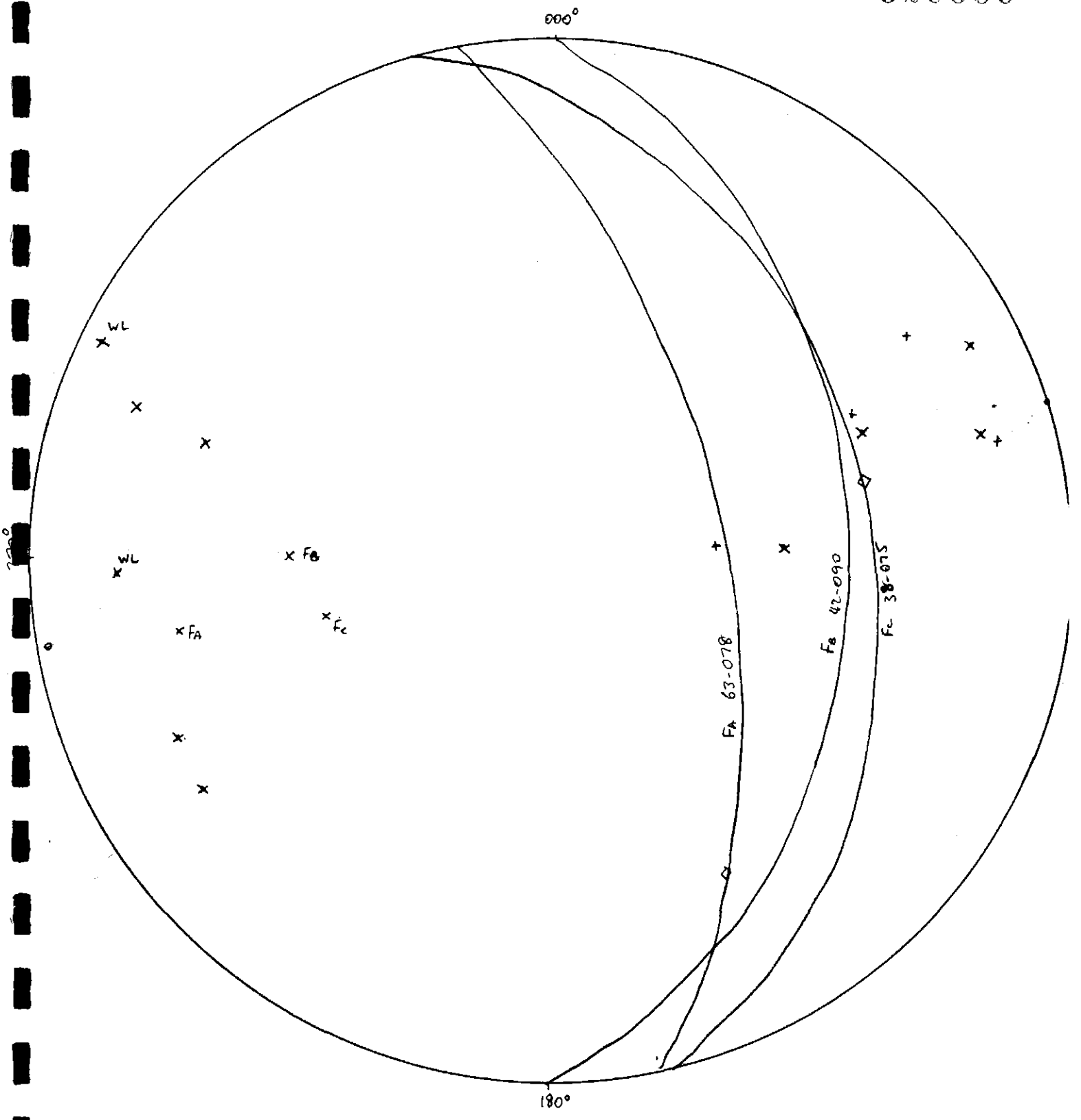
NEW GOLDEN GATE ADIT LEVEL - VEINS



- POLES TO VEINS
  (NOS refer to sample locations from adit map.)

NEW GOLDEN GATE - BEDDING, FAULTS, CLEAVAGE.

329355



FA AND FB are the same fault.

× POLES TO FAULTS

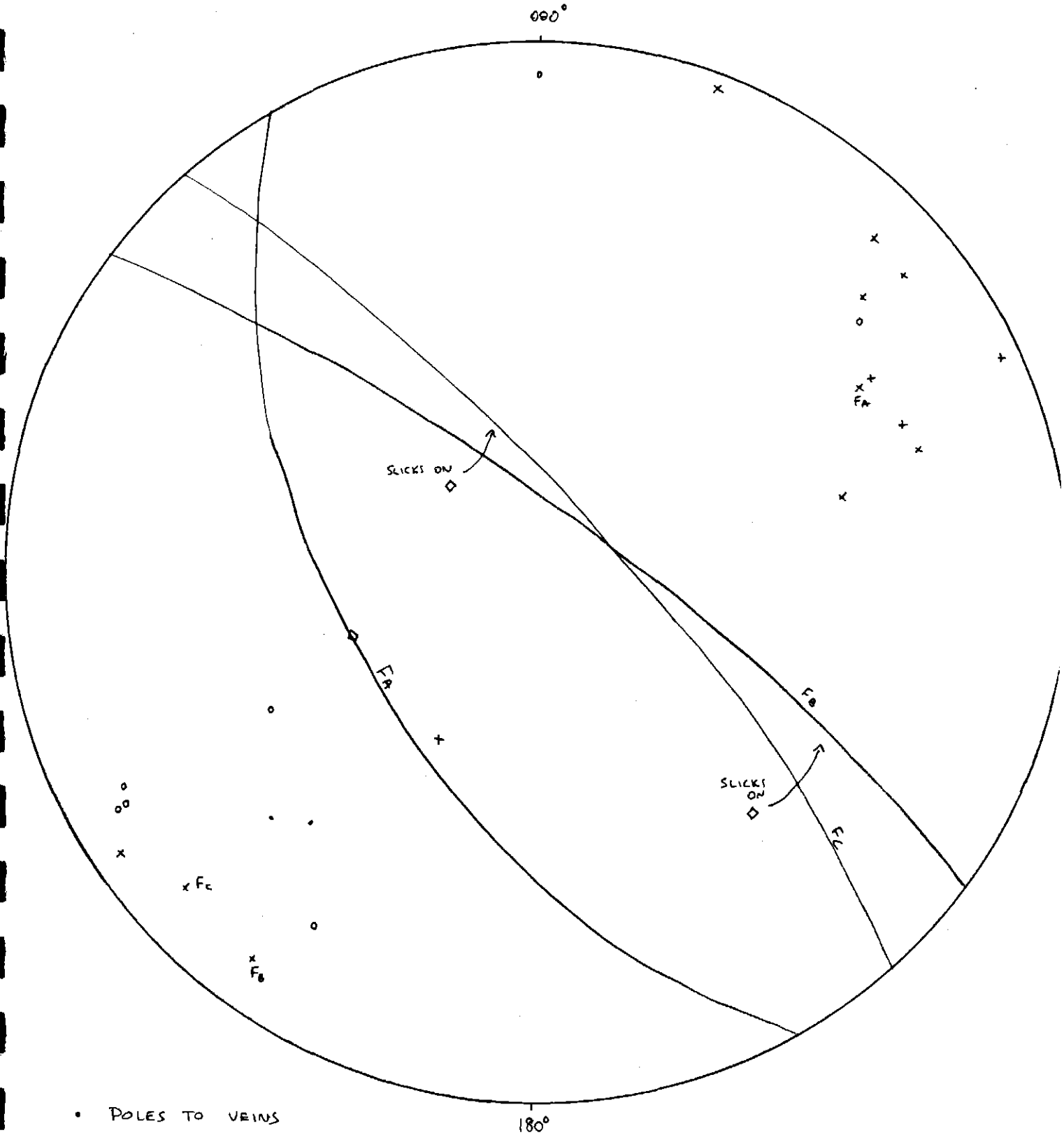
×WL POLES TO WALLS ON LOANES REEF

\+ POLES TO BEDDING

o POLES TO CLEAVAGE

GOLDEN HINGES

329356

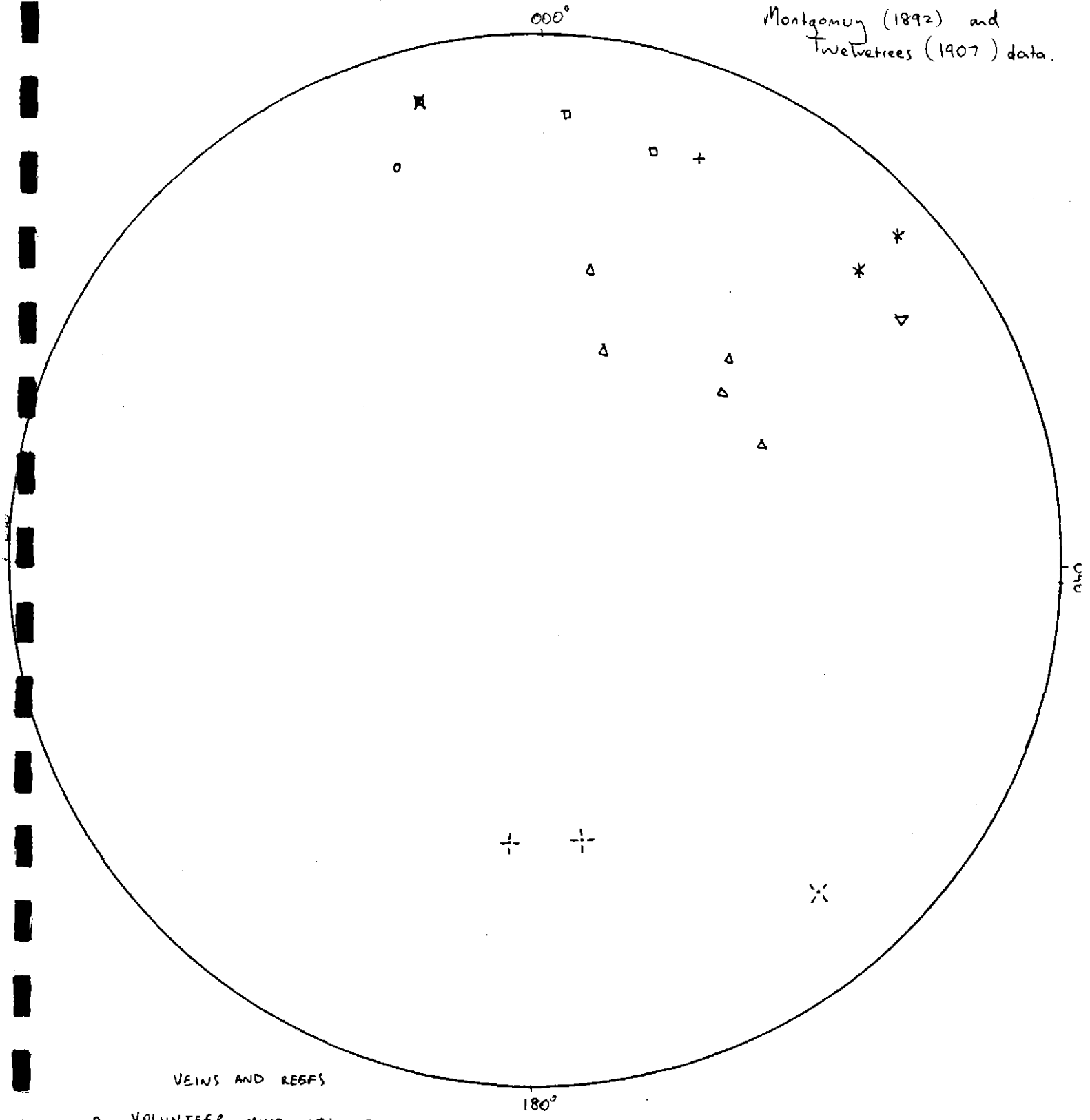


- • POLES TO VEINS
- + POLES TO BEDDING
- o POLES TO CLEAVAGE
- × POLES TO FAULTS
- ◇ SLICKENSIDES

329357

VOLUNTEER MINE, VOLUNTEER CONSOLIDATED, OLD BOYS YELLOW BOYS, CHESTER AND MURRAY VEINS AND REEFS

Montgomery (1892) and Twelvetrees (1907) data.

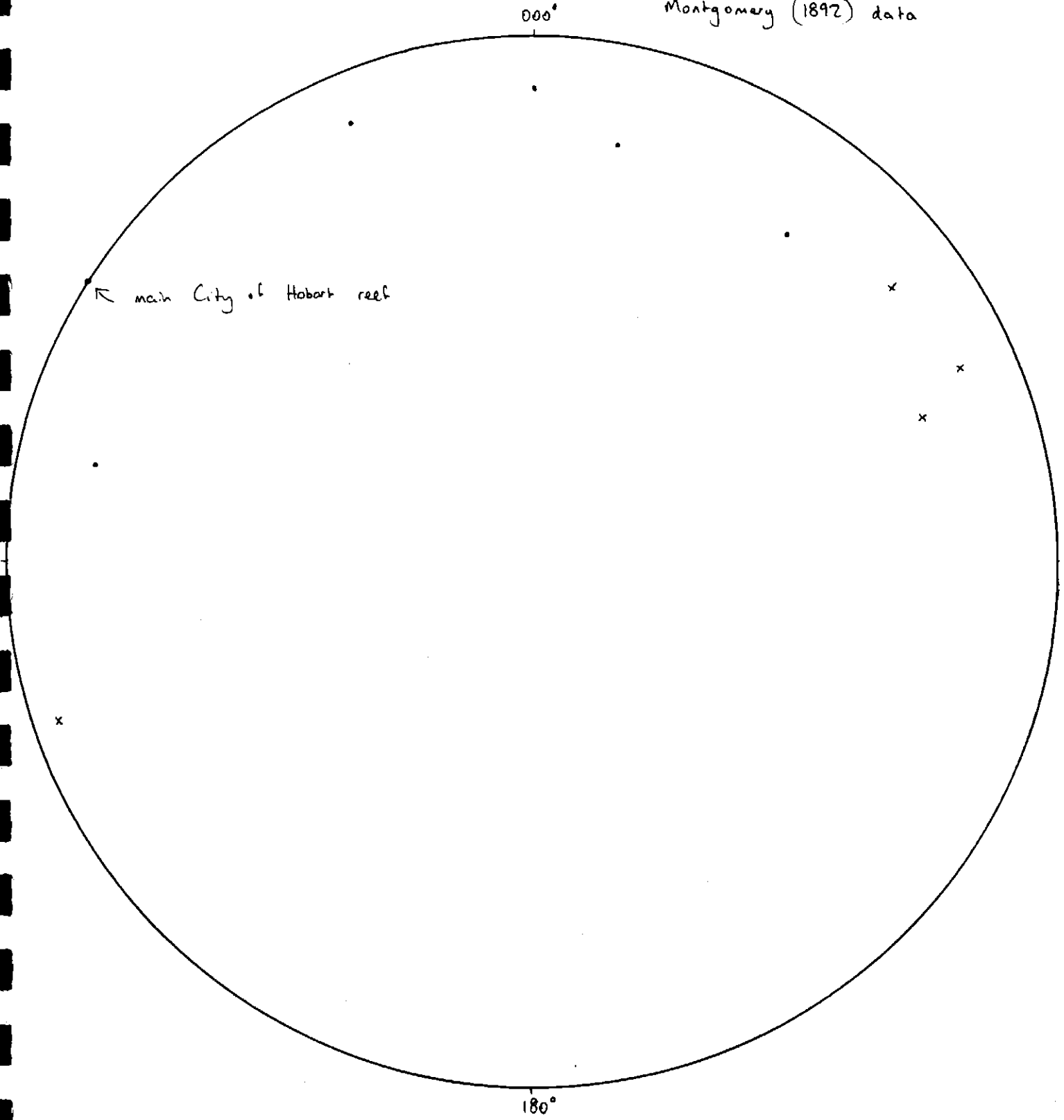


VEINS AND REEFS

- o VOLUNTEER MINE Nº1 REEF
- □ " " Nº2 REEF
- △ " " Nº3 REEF
- \+ " " '6" VEIN'
- ▽ " " 'ANOTHER CHANNEL'
- ⋋ BLACK BOYS REEF IN OLD BOYS MINE
- ✱ CHESTER AND MURRAY
- ■ YELLOW BOYS
- ⊹ VOLUNTEER MINE

CITY OF HOBART

Montgomery (1892) data



• POLES TO CLEAVAGE

× POLES TO FAULTS

Old Glencoe Adit
(1:100)

5 cm

TN

SHAFT

F 68-268
sub vertical
slikt.

FAULT BRECCIA TW WEST WALL OF X-CUT

X - CUT

79
47

45

F 90-236
(possibly
east side up).

25

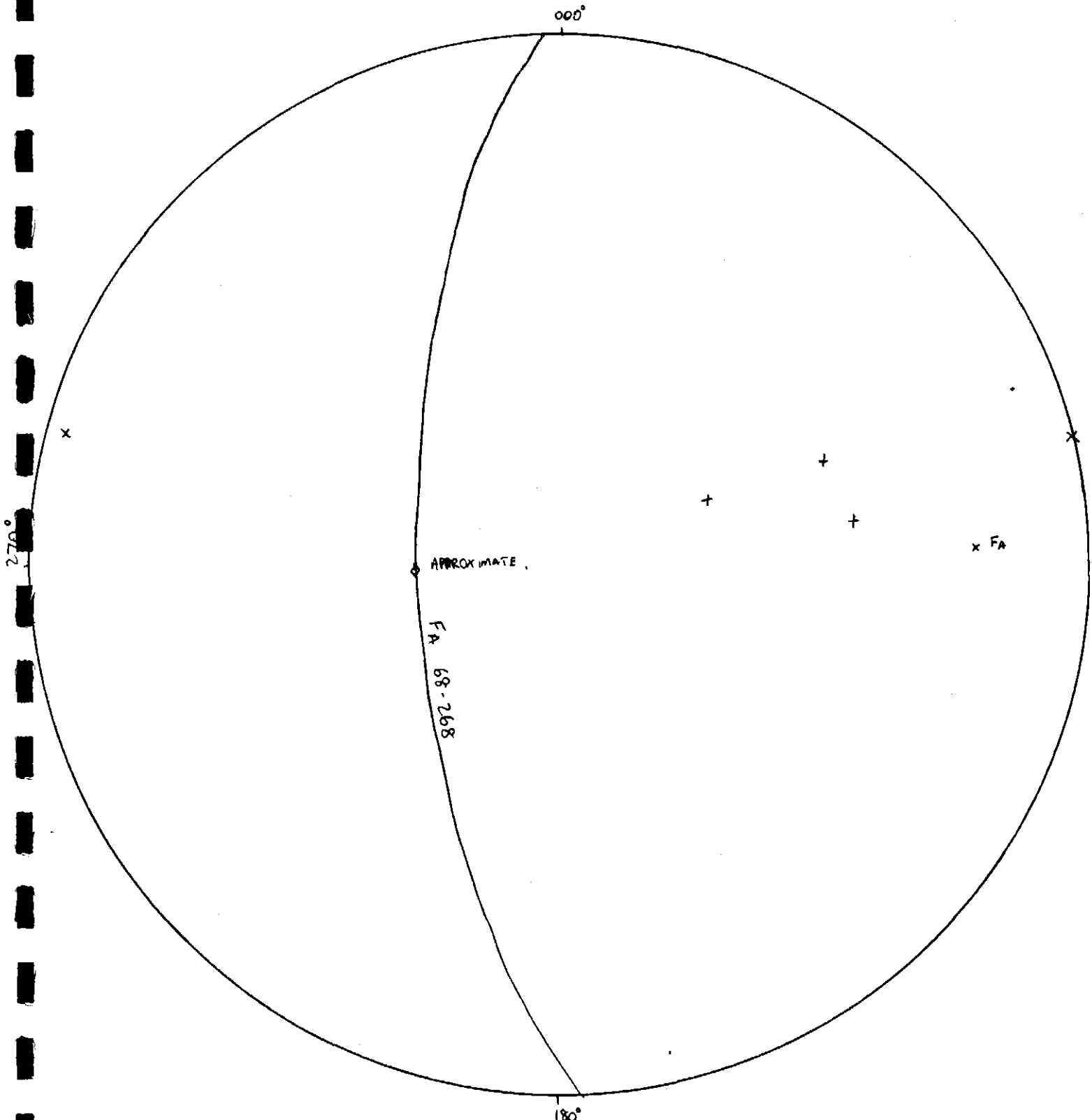
F 87-105

occasional veins @ ± 80-300.

F 25-110

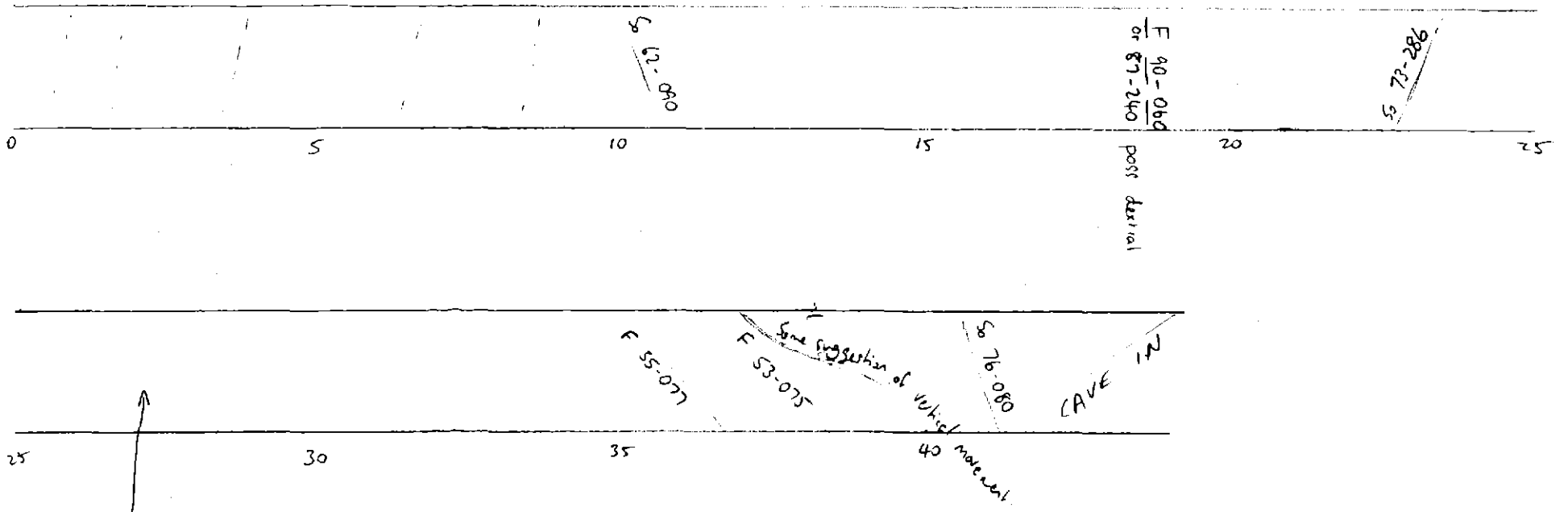
OLD GLENCOE ADIT

329360

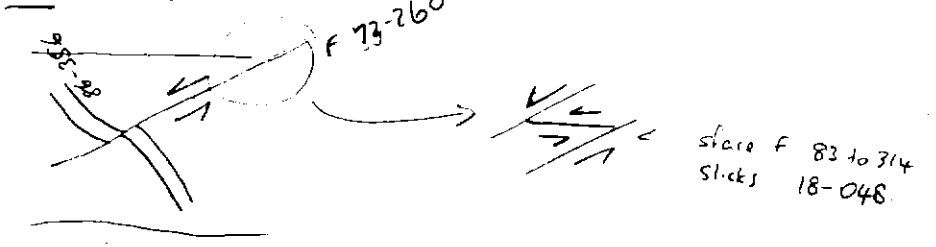


- • POLES TO VEINS
- \+ POLES TO BEDDING
- × POLES TO FAULTS
- ◇ SLICKENSIDES

CALEDONIAN

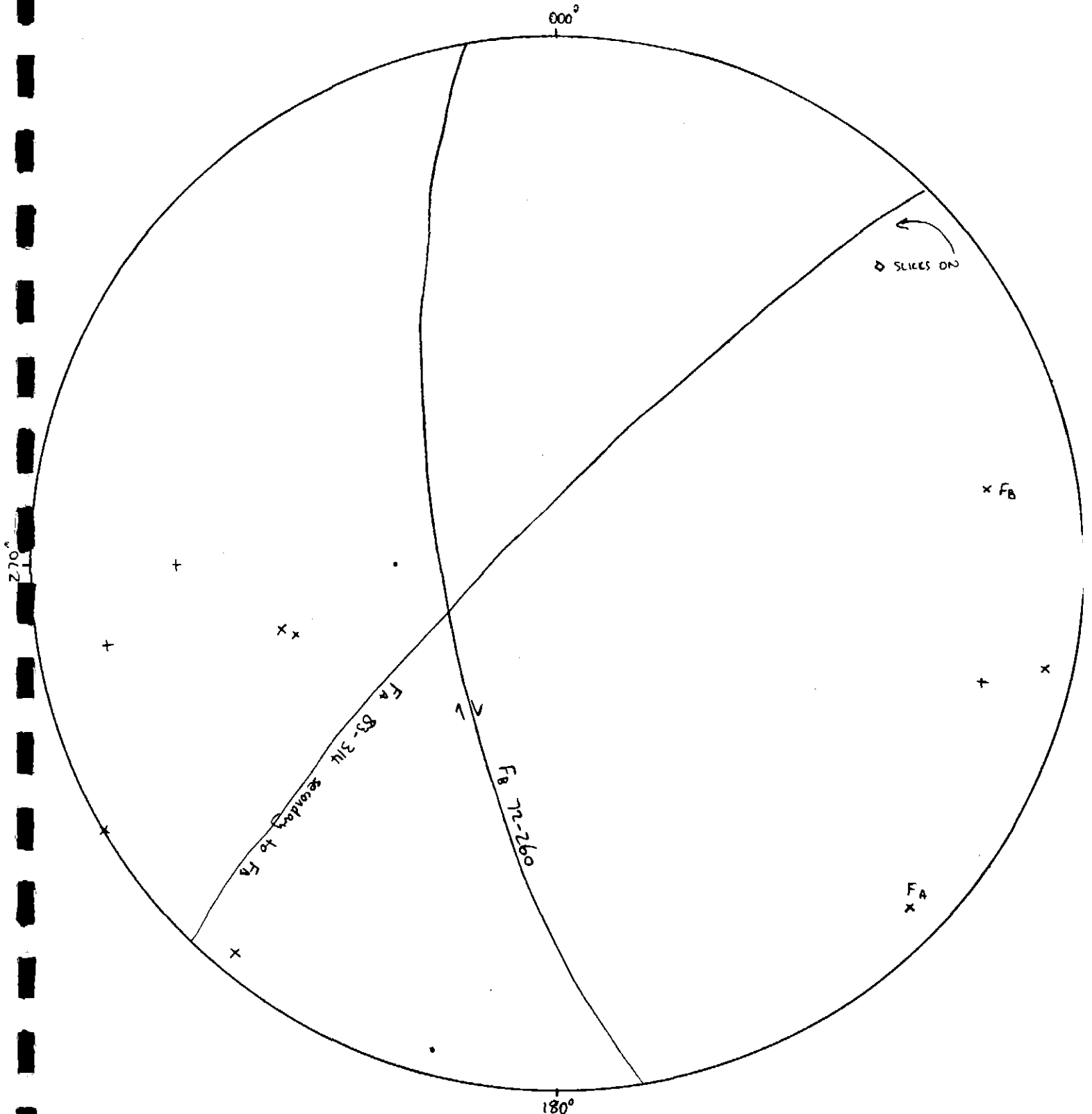


PLAN



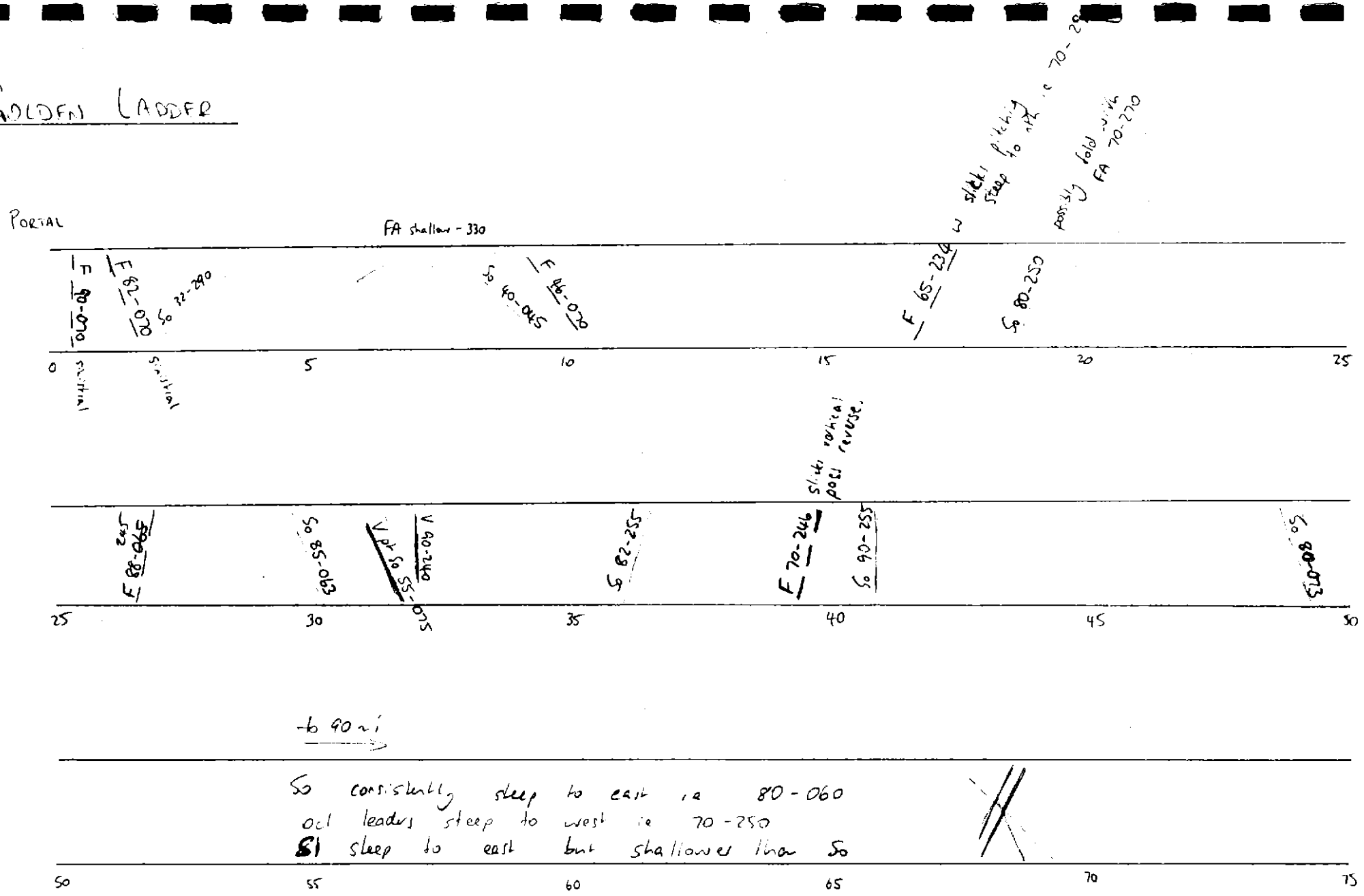
320362

CALEDONIAN ADIT



- POLES TO VEINS
+ POLES TO BEDDING
× POLES TO FAULTS
◇ SLICKENSIDES

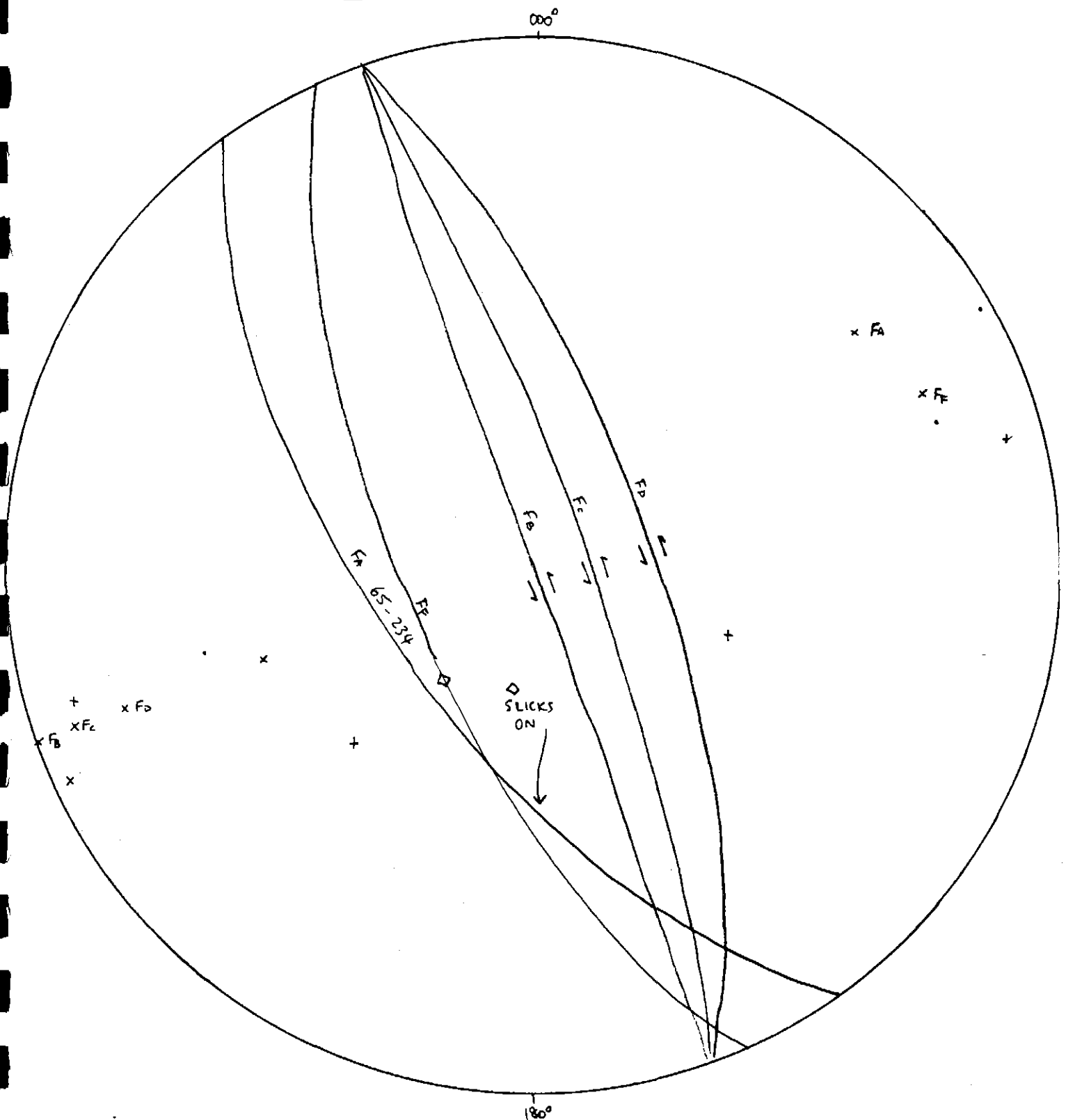
GOLDEN LADDER



to 90 ni

So consistently steep to east ie 80-060
ocl leaders steep to west ie 70-250
SI steep to east but shallower than So

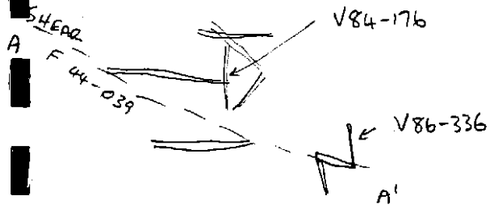
GOLDEN LADDER ADIT



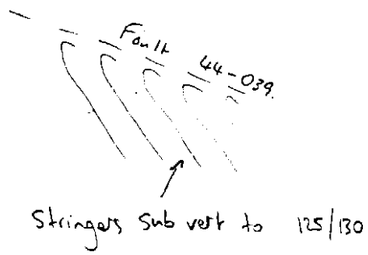
- POLES TO VEINS
+ POLES TO BEDDING
× POLES TO FAULTS
◇ SLICKENSIDES

329365

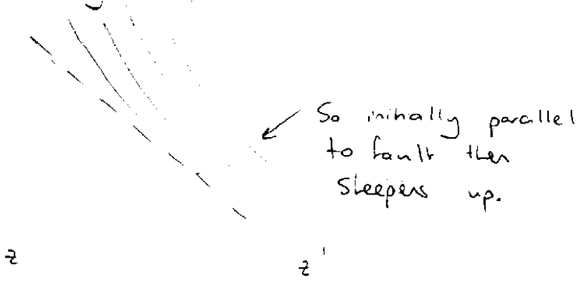
B. SECTION- SCHEMATIC A A' see →



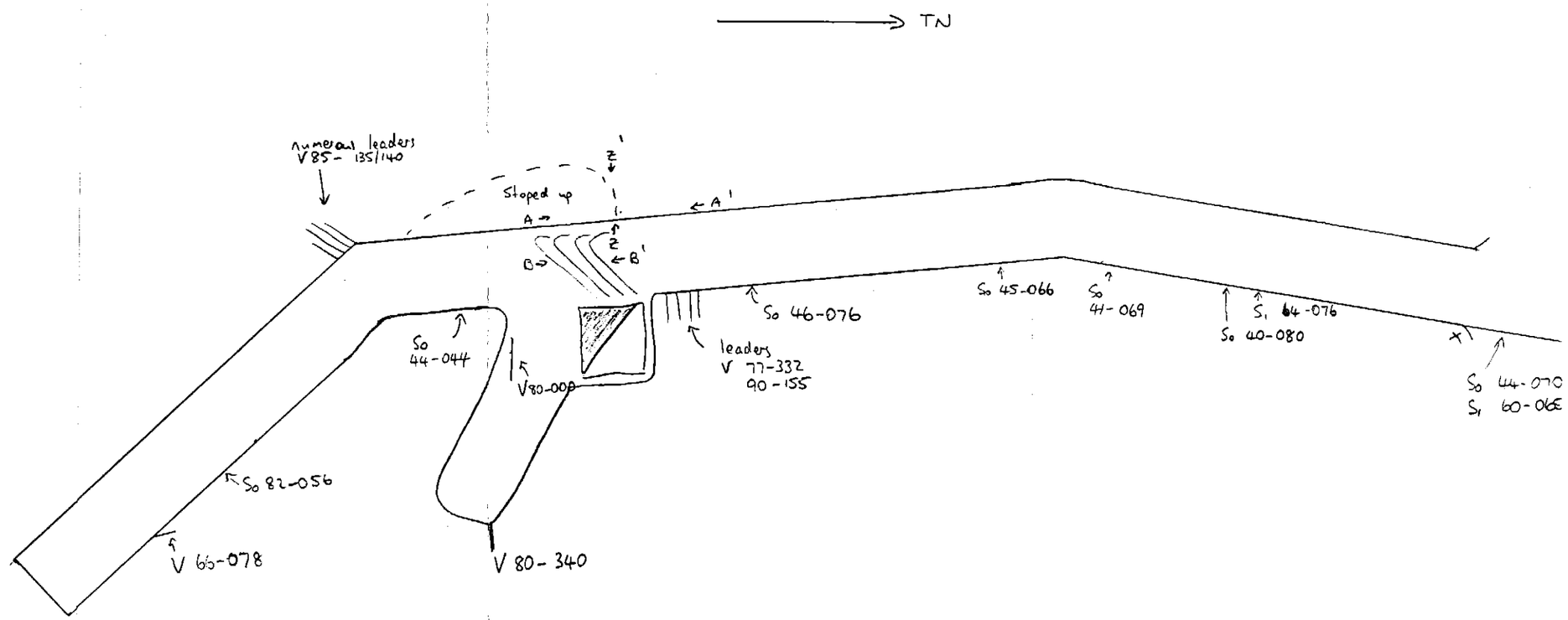
C. PLAN - SCHEMATIC B B' →



A. SECTION - SCHEMATIC Z Z'
(looking north)



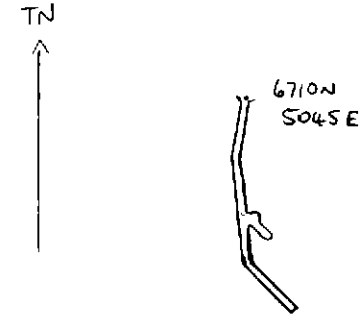
D. PLAN 1:100



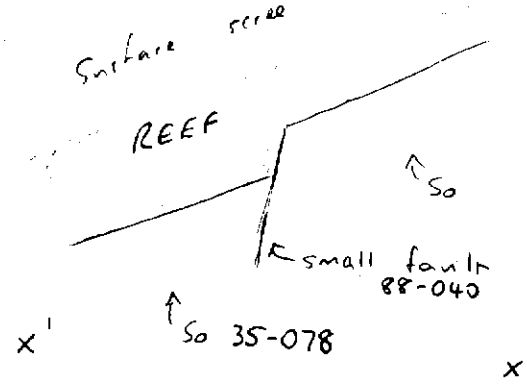
ADIT AT ≈ 6700N 5050E

5 cm

A 1:1000 Plan

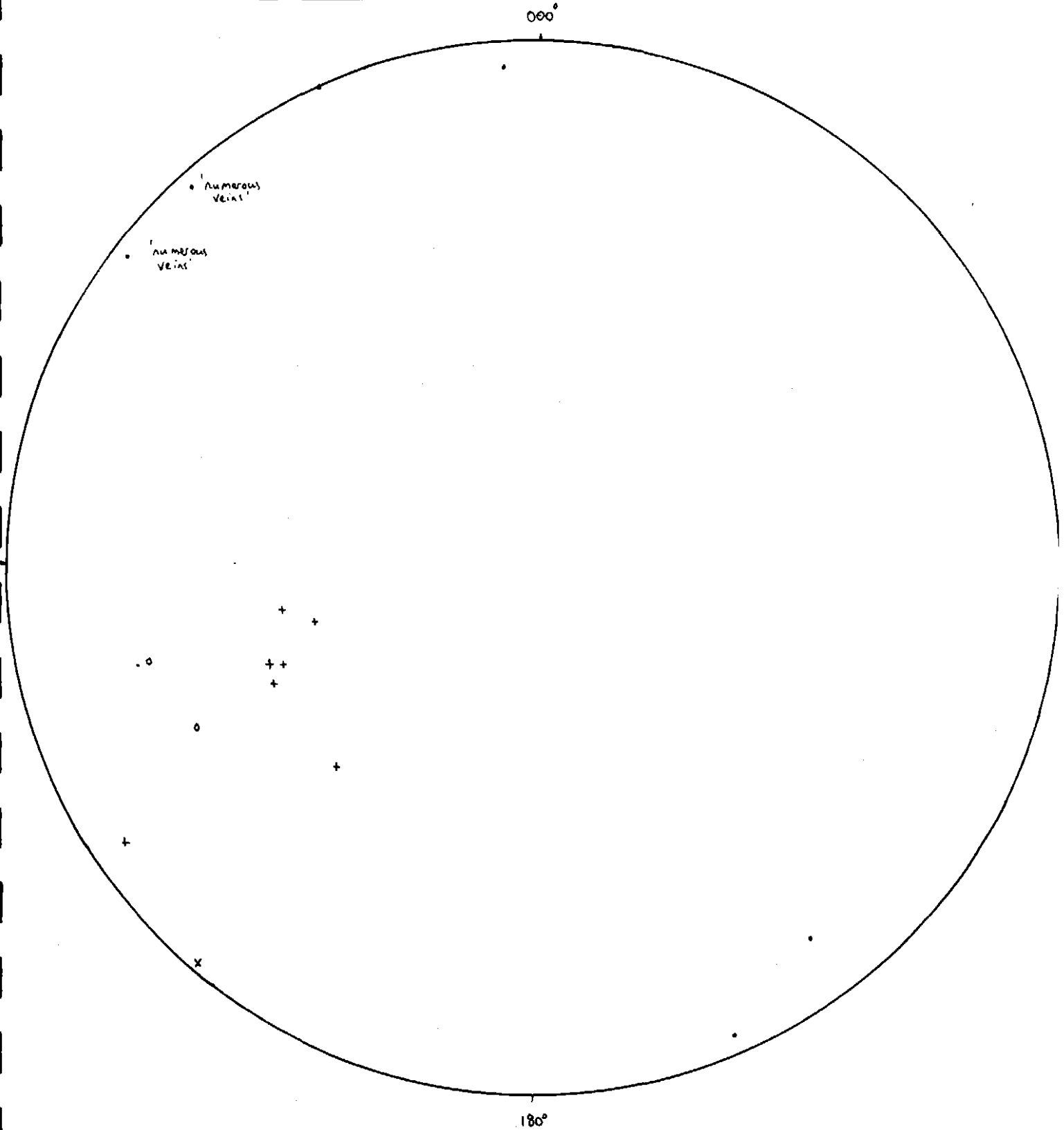


F. SECTION xx' - SCHEMATIC
(looking east)



329367

ADIT AT ≈ 6700N 5050E - BACK OF CALEDONIAN HILL



• POLES TO VEINS

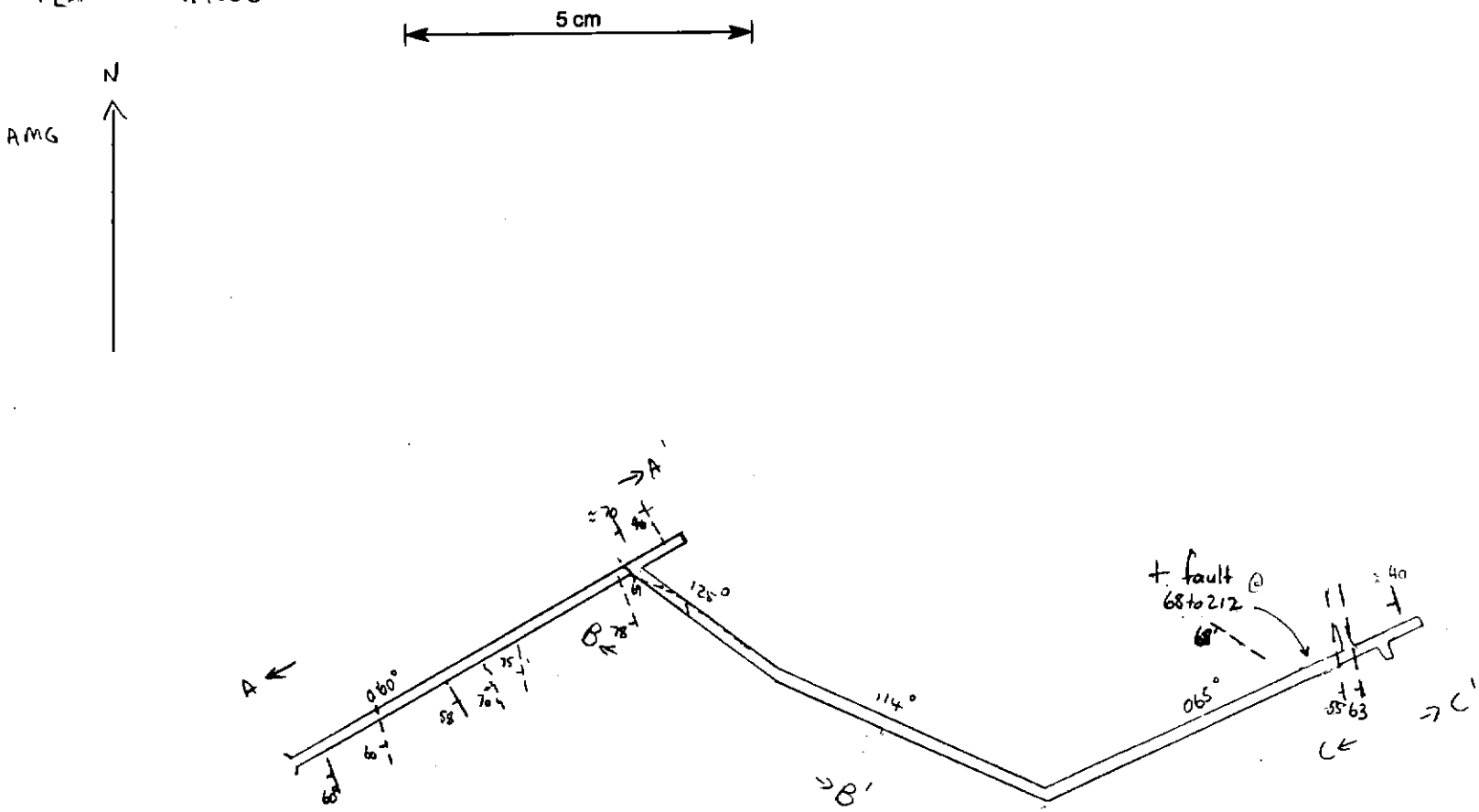
+ POLES TO BEDDING

o POLES TO CLEAVAGE

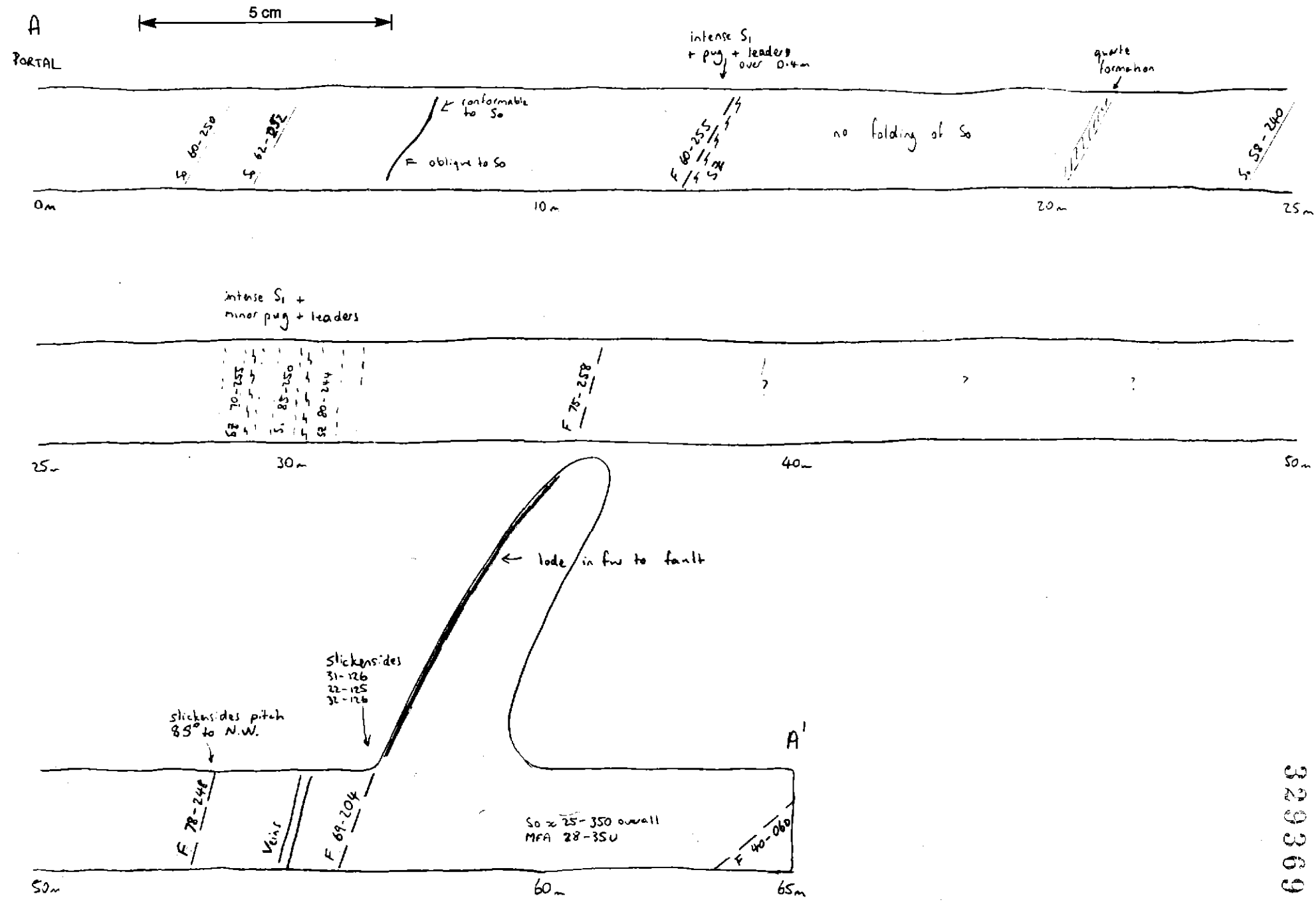
× POLES TO FAULTS

VICTORIAN GOLDEN GATE

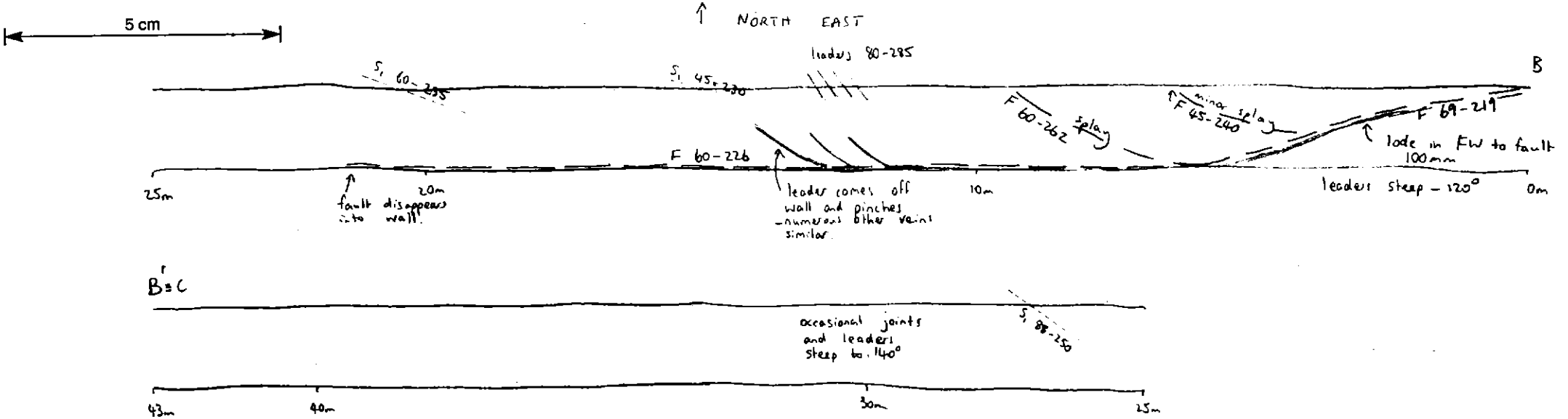
A. PLAN 1:1000



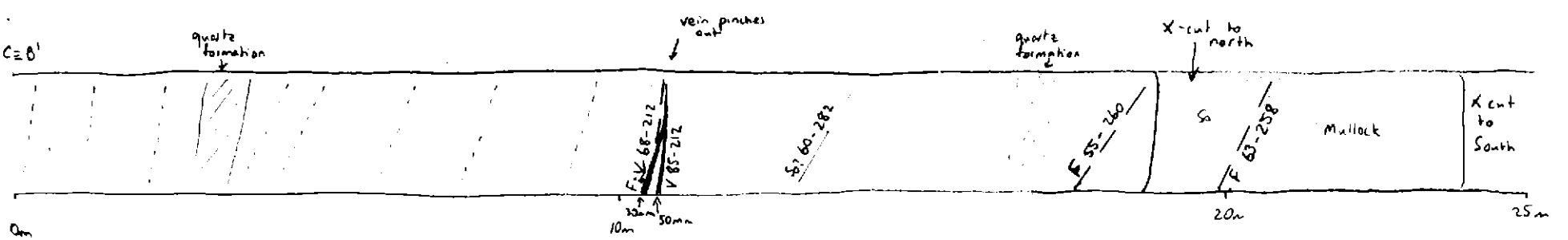
B. SECTION AA' . 1:100

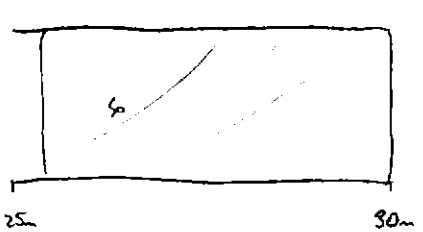


C: PLAN BB' 1:100

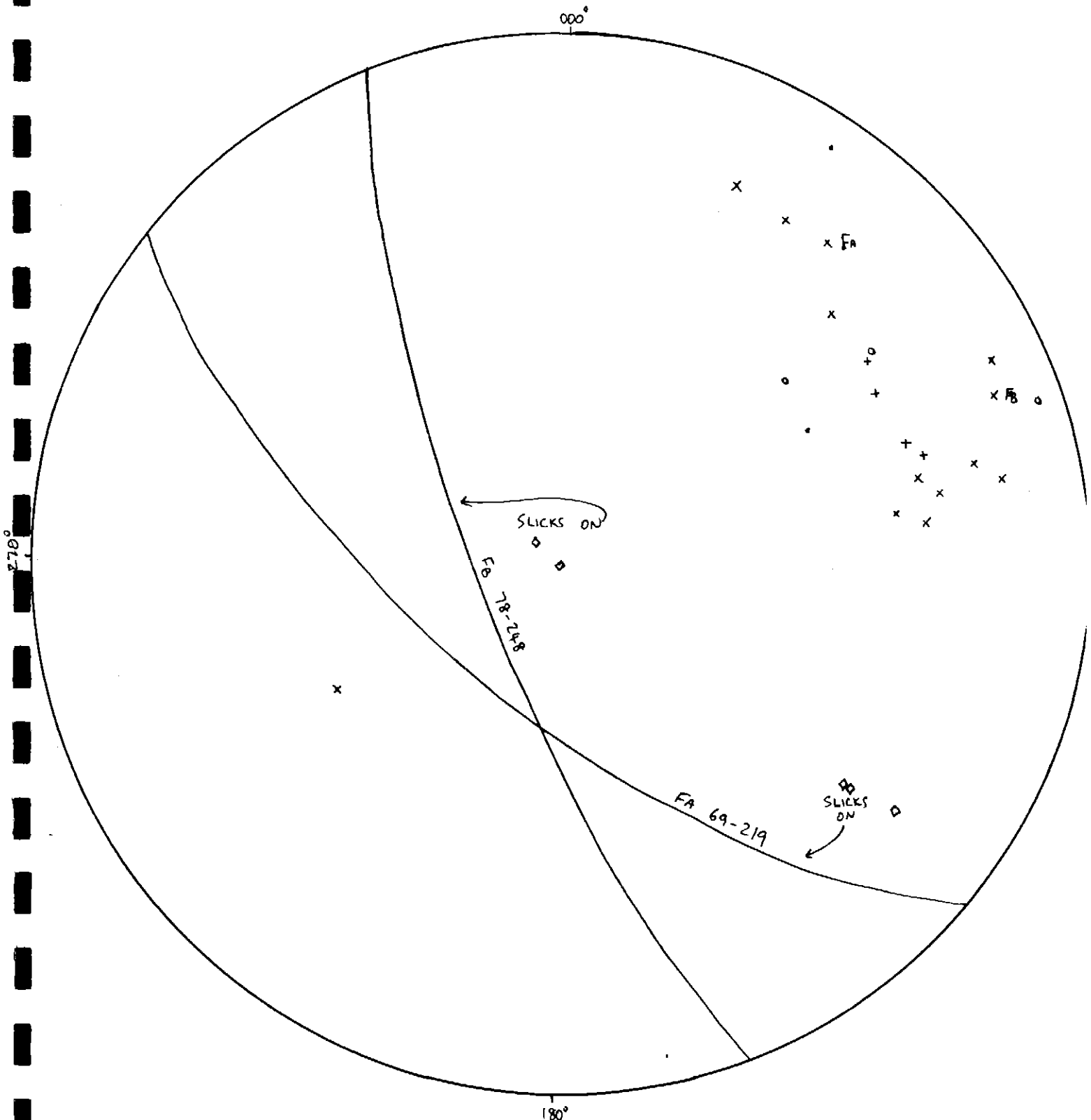


D: SECTION CC' 1:100





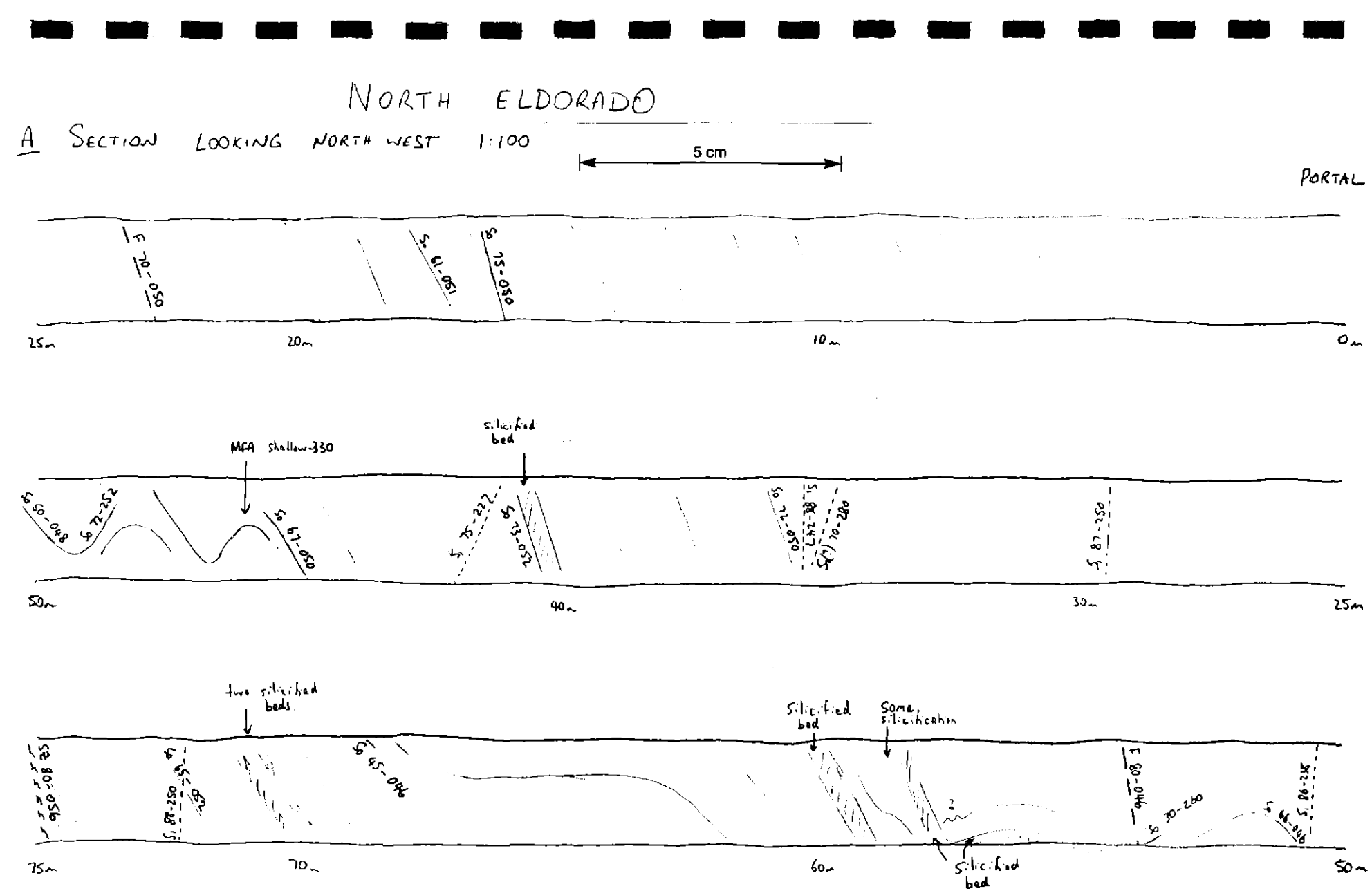
VICTORIAN GOLDEN GATE

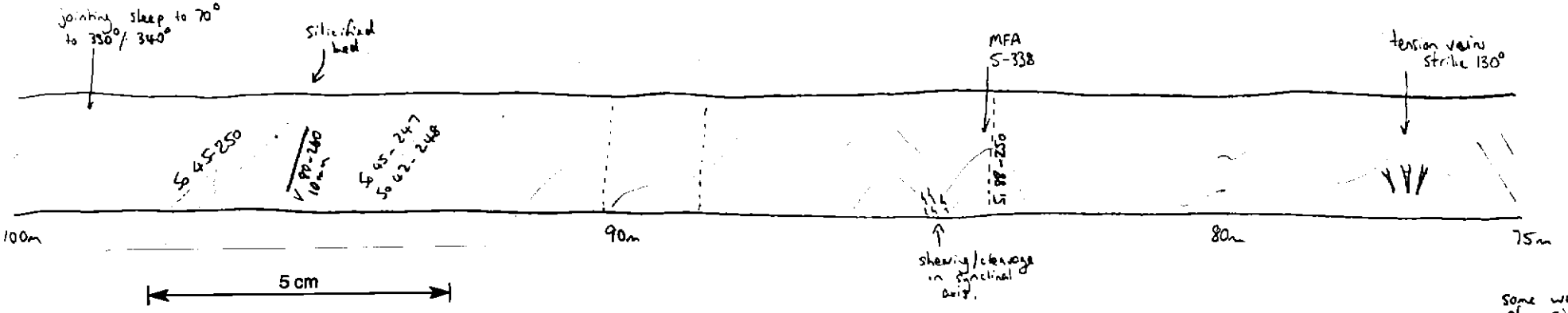


- • POLES TO VEINS
- \+ POLES TO BEDDING
- × POLES TO FAULTS
- ◇ SLICKENSIDES
- ○ POLES TO CLEAVAGE

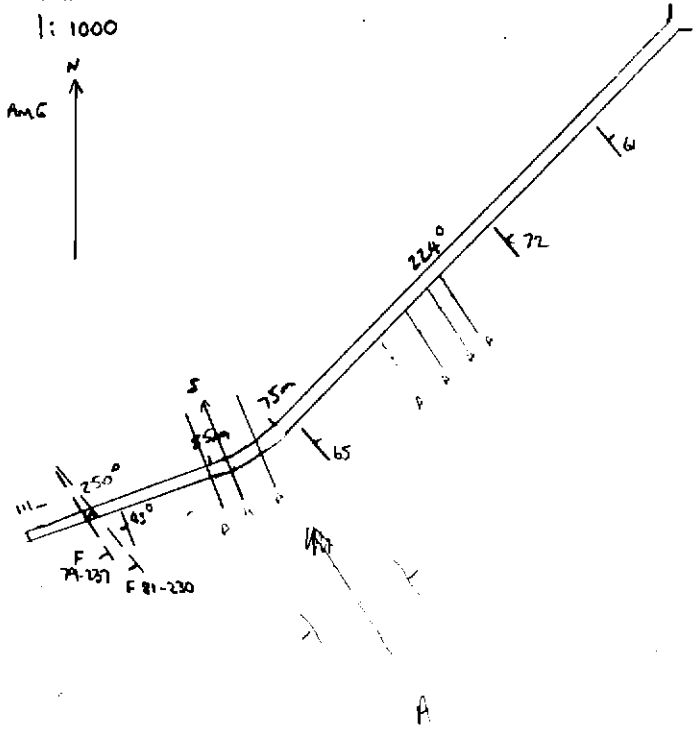
NORTH ELDORADO

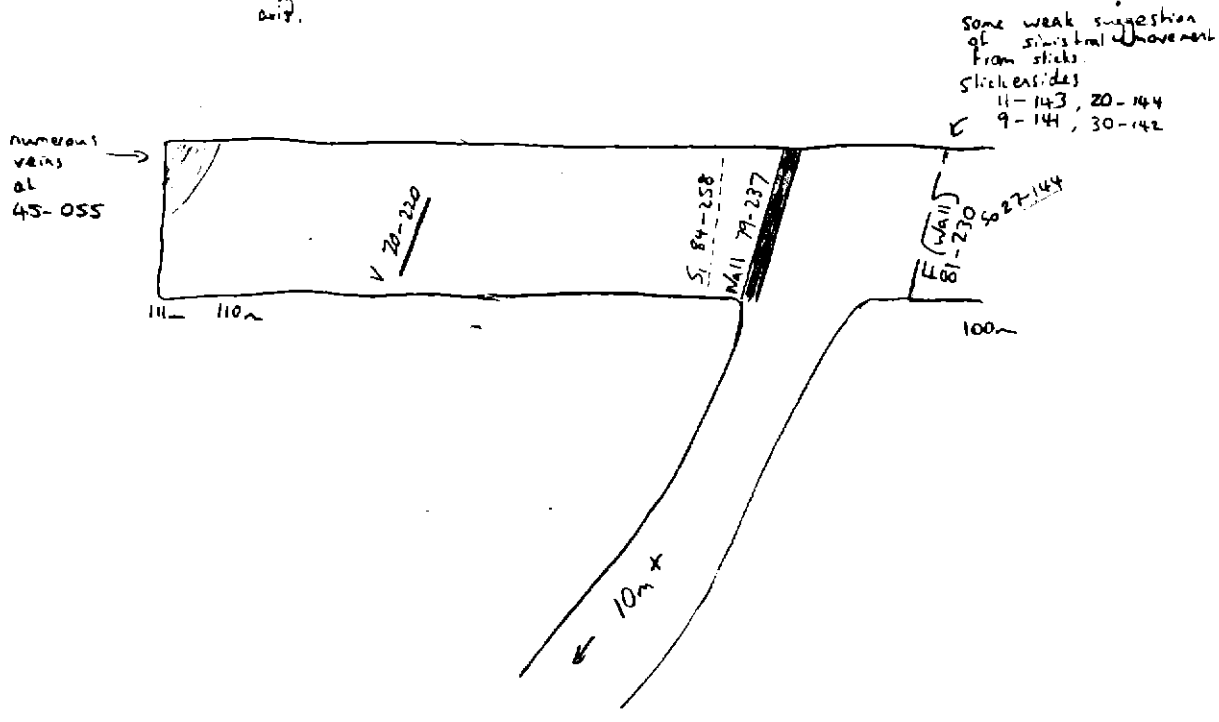
A SECTION LOOKING NORTH WEST 1:100



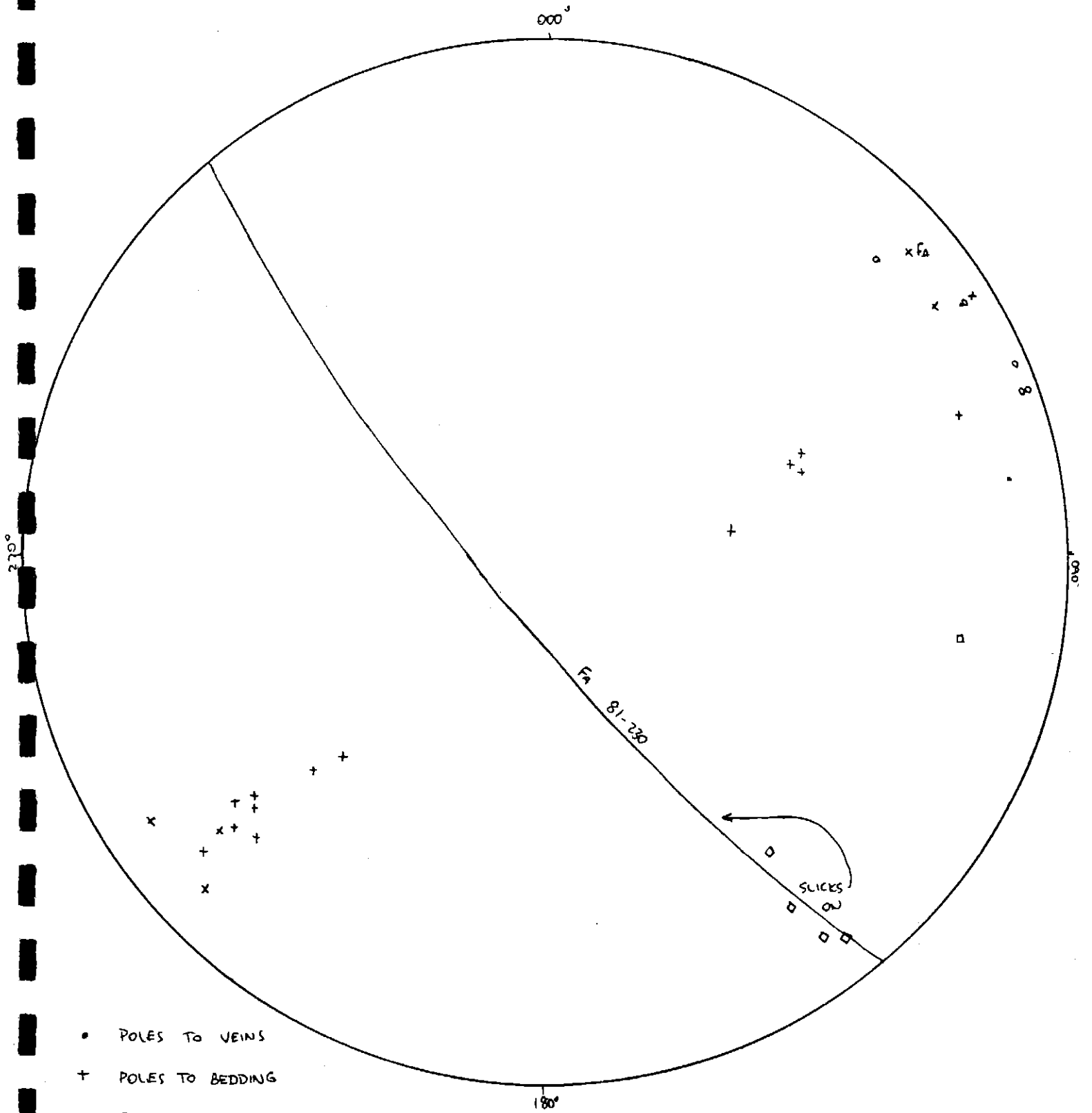


B. PLAN
1: 1000





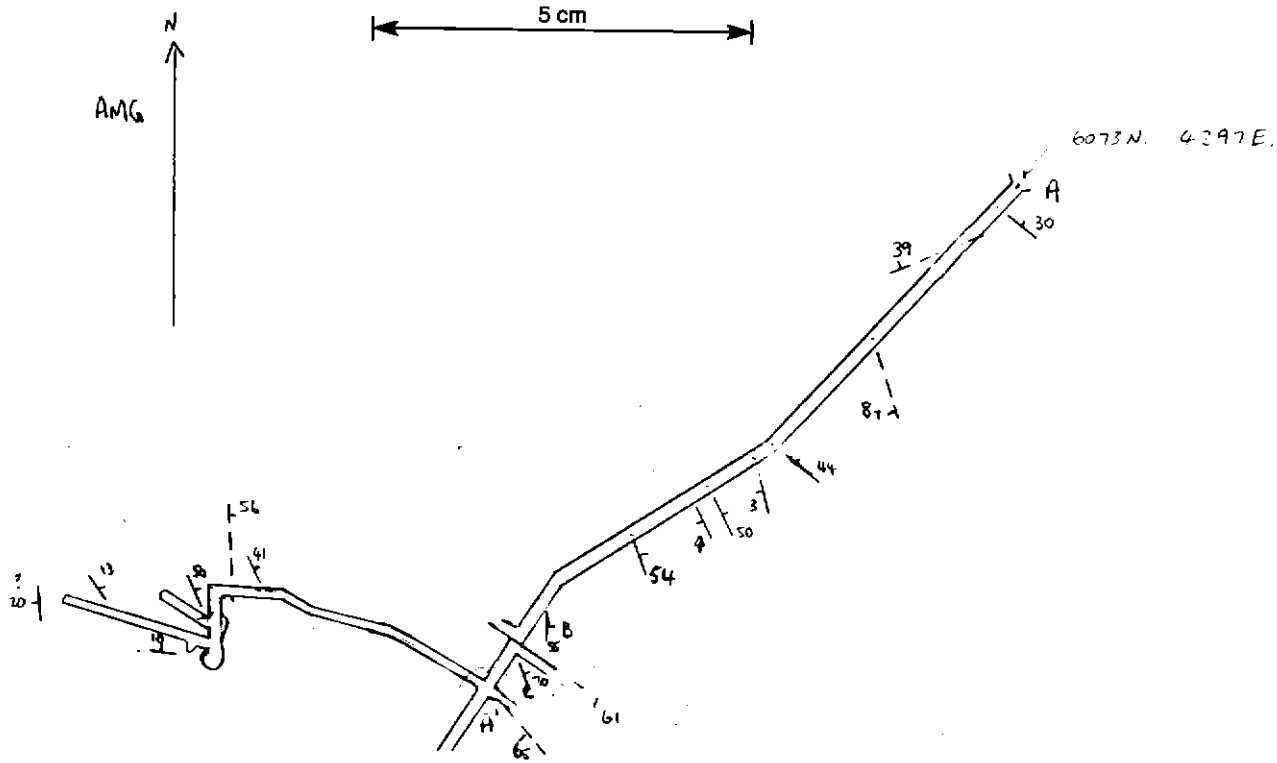
NORTH ELDORADO



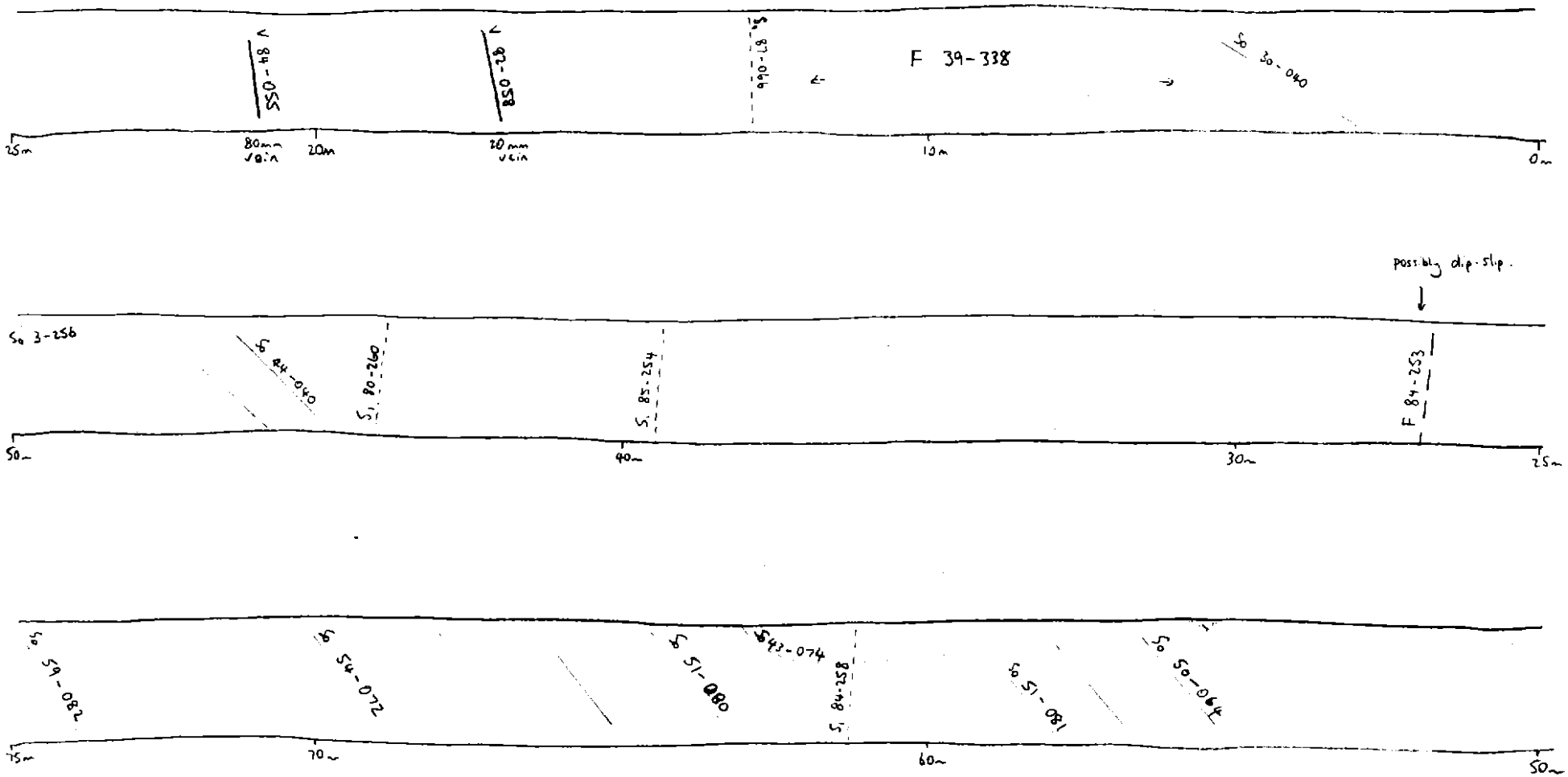
- POLES TO VEINS
+ POLES TO BEDDING
× POLES TO FAULTS
◇ SLICKENSIDES
• POLES TO CLEAVAGE (S_1)
□ POLES TO CLEAVAGE (S_2)

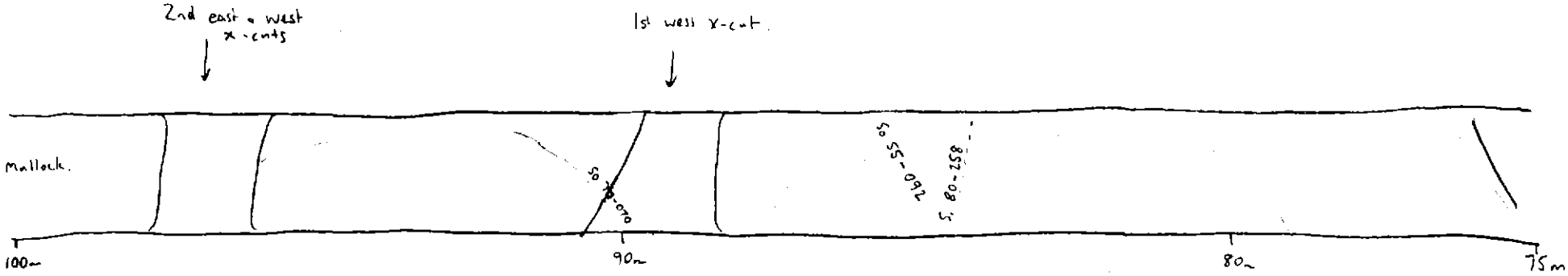
NEW ELDORADO

A. PLAN 1:1000

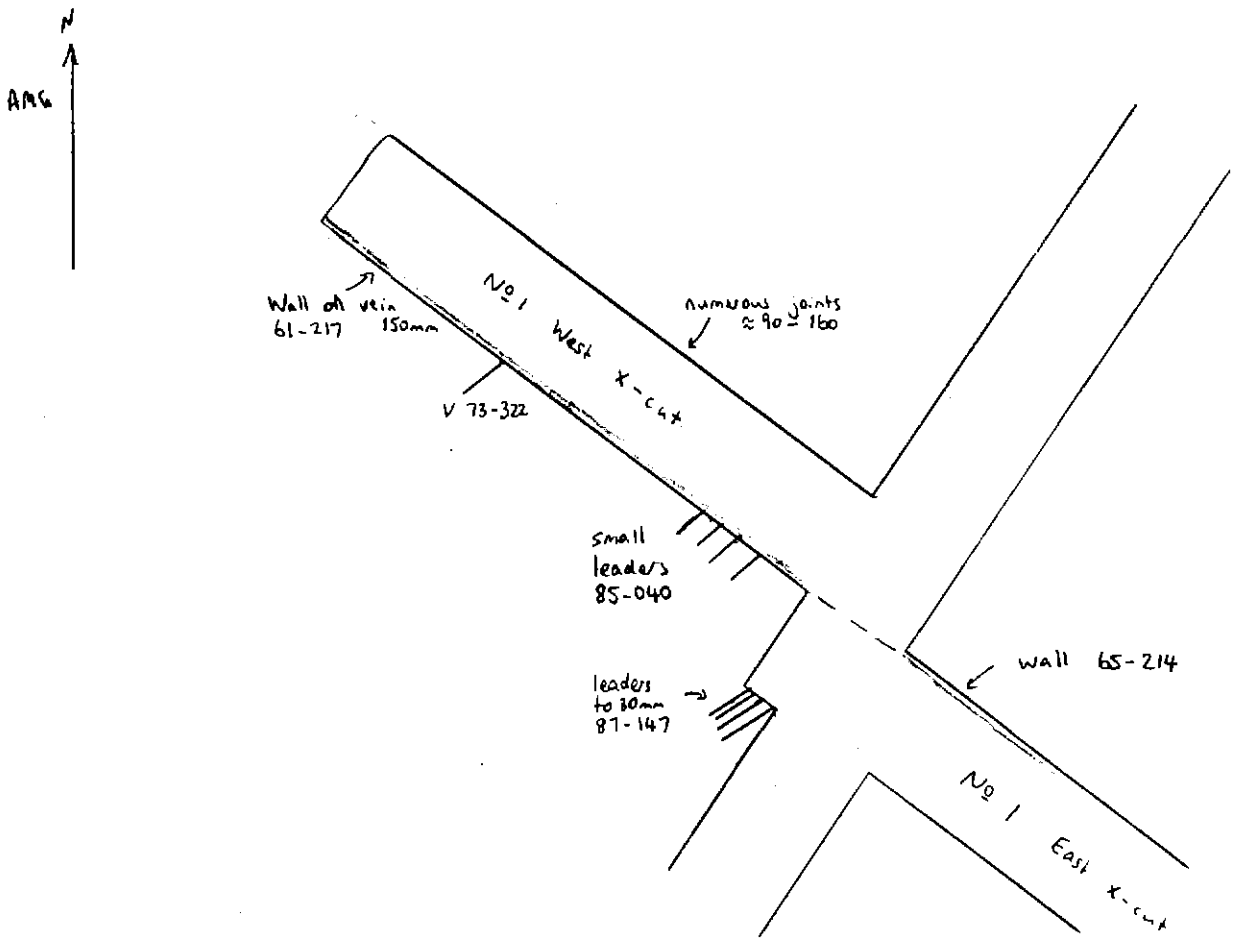


B. SECTION AA'



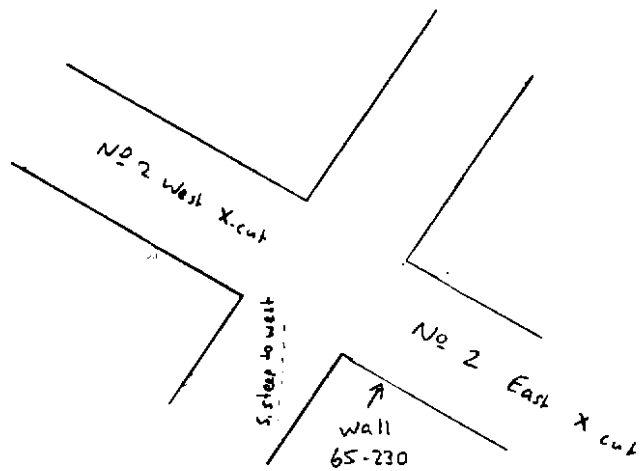


C: PLAN AREA B. 1:100



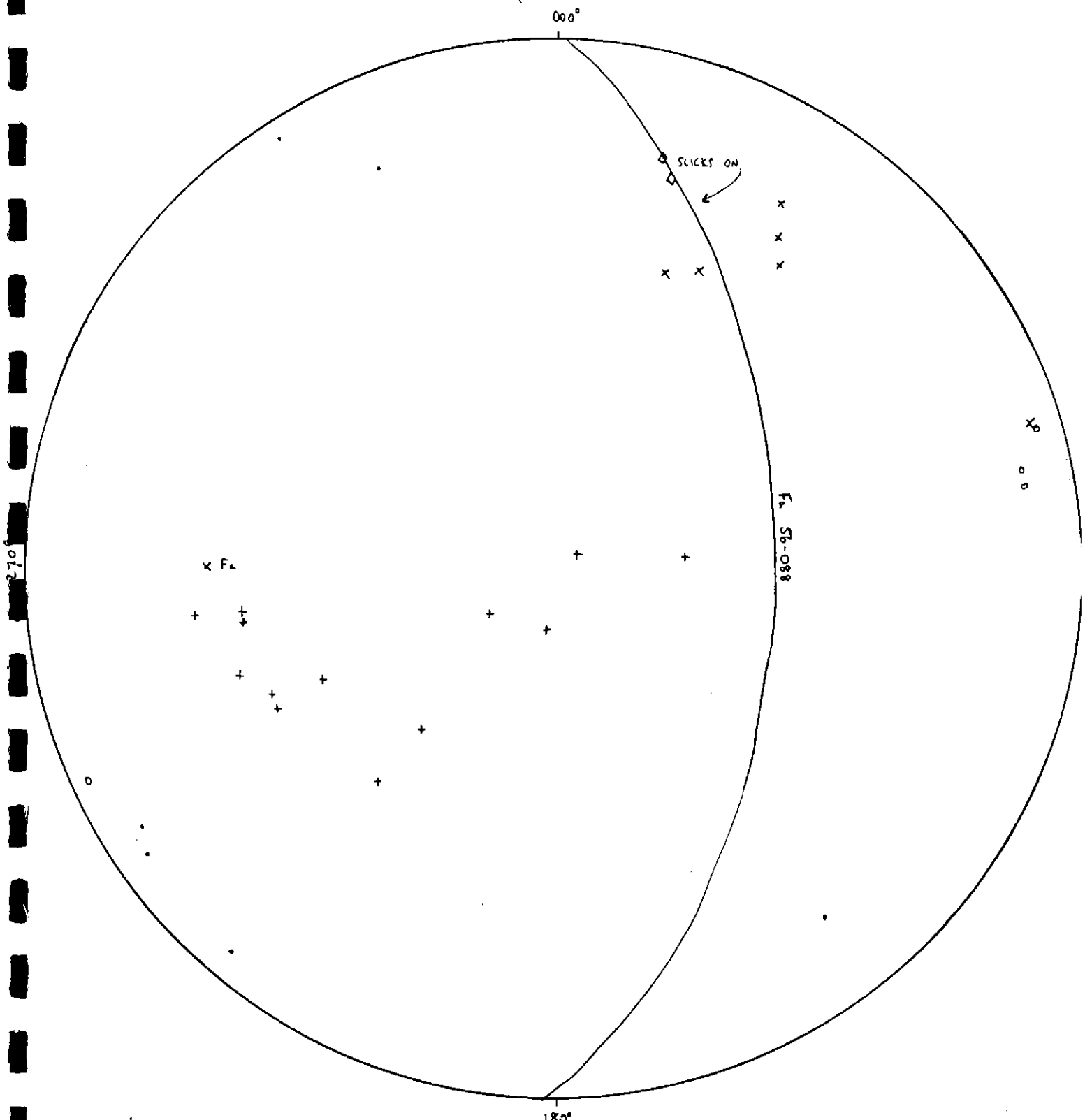
D. PLAN AREA C 1:100

5 cm



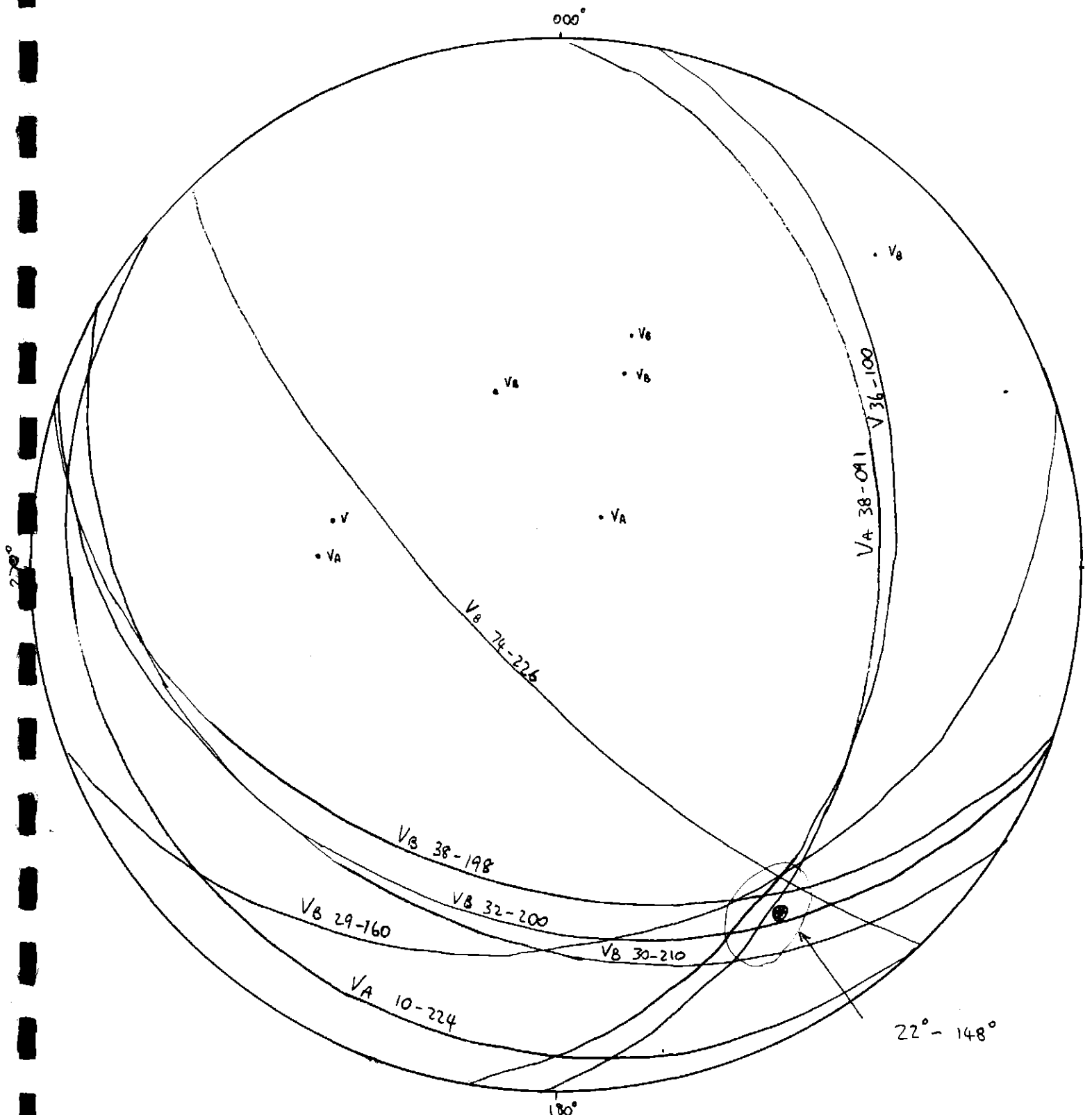
NEW ELDORADO

329380



- POLES TO VEINS
- × POLES TO FAULTS AND "WALLS"
- \+ POLES TO BEDDING
- o POLES TO CLEAVAGE

NEW ELDORADO - FOLDED VEINS IN X-CUT

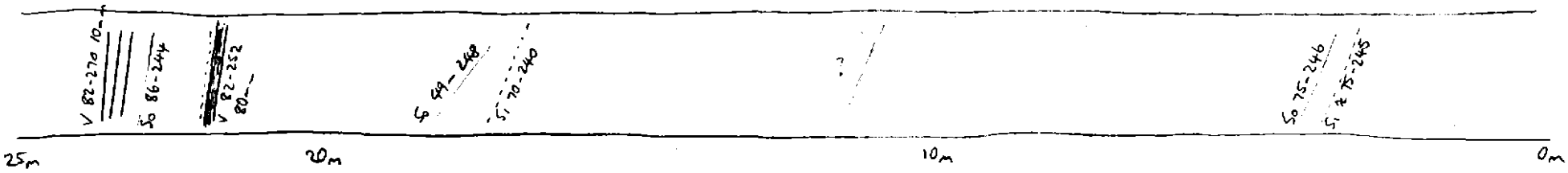


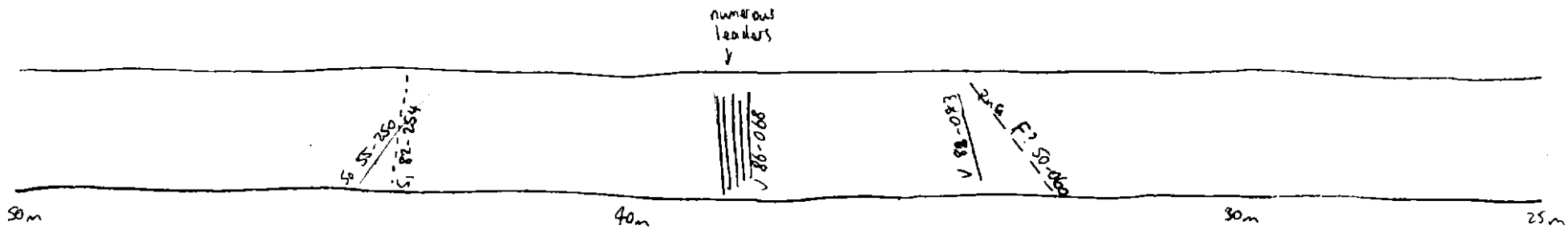
- POLES TO VEINS
  (V_A, V_B AND V refer to notation used in X-cut mapping)

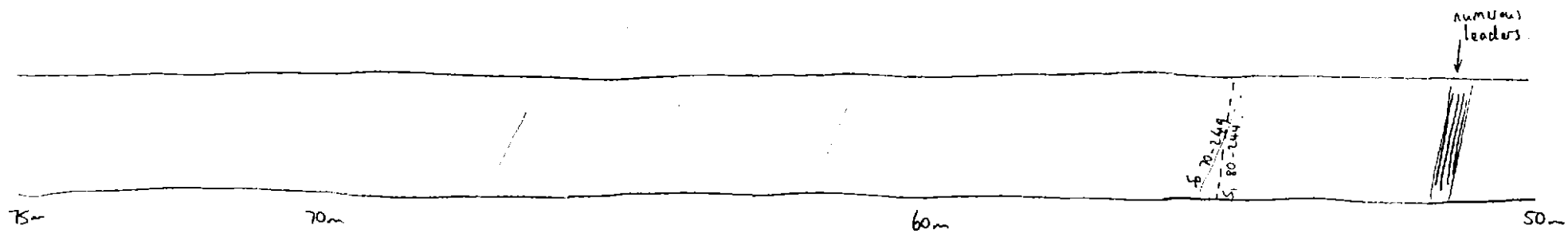
⊕ FOLD AXIS OF VEINS

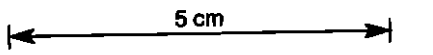
GLADSTONE

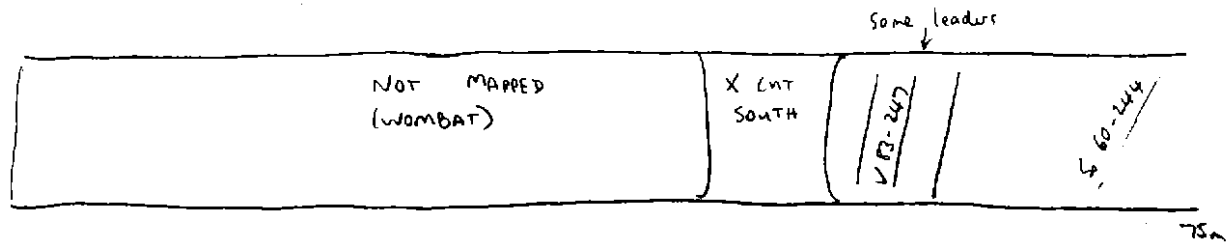
A SECTION LOOKING NORTH.



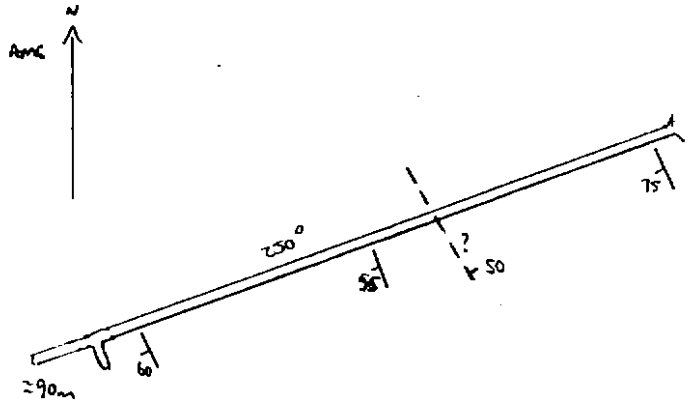





5 cm

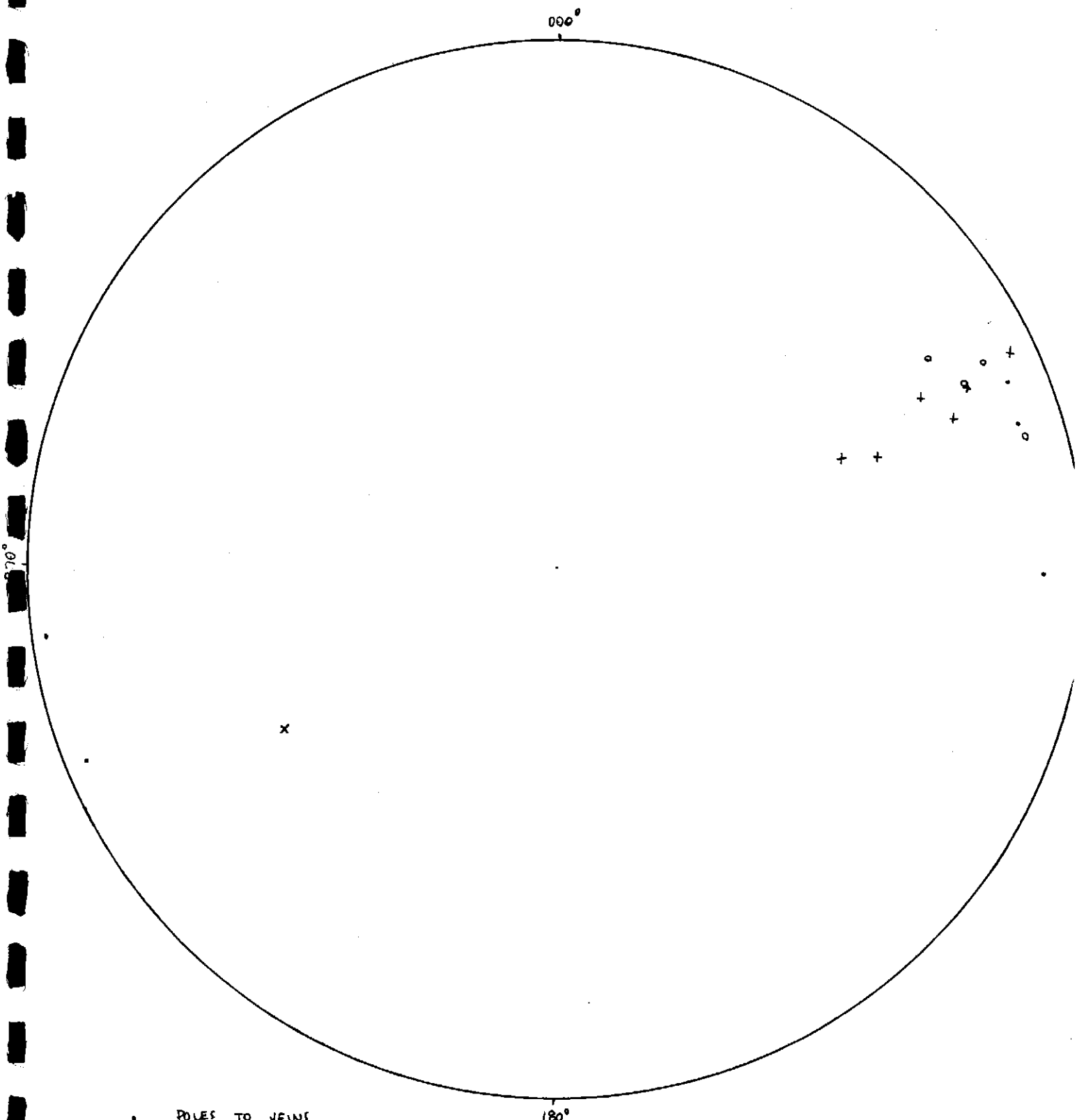

Some leaders
NOT MAPPED
(WOMBAT)
X CUT
SOUTH
VB-247
60-244
75m

B. PLAN 1: 1000


N
AMC
250°
75
50
60
~90m

GLADSTONE ADIT

320384



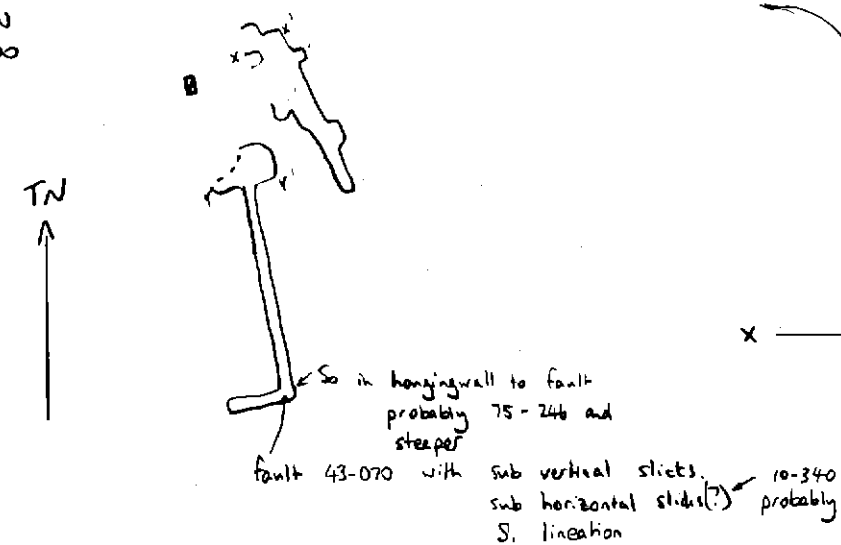
• POLES TO VEINS

+ POLES TO BEDDING

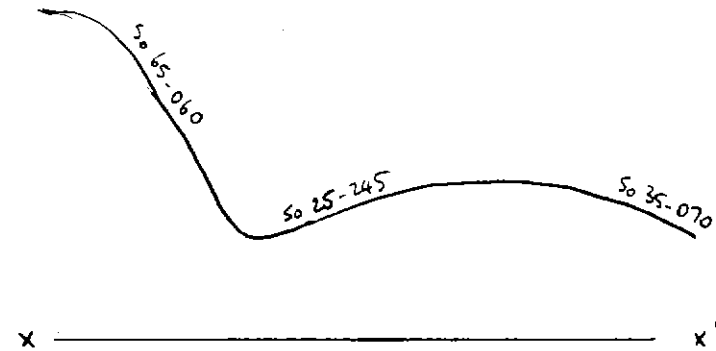
× POLES TO FAULTS

HORSESHOE

A. PLAN
1:1000

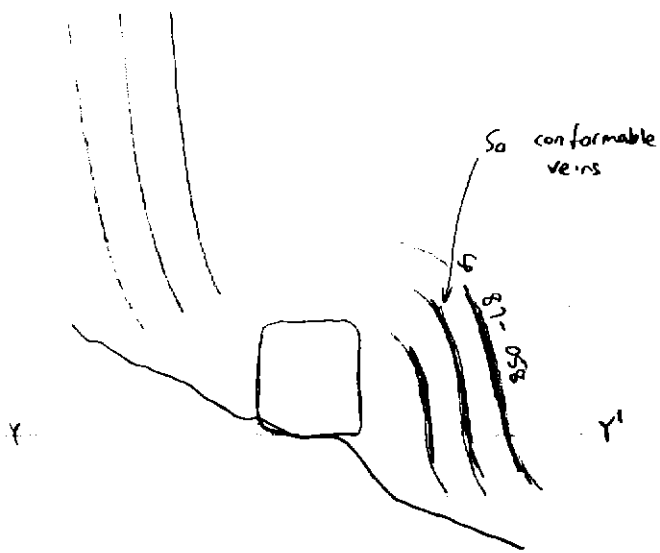


B. SECTION xx' (LOOKING NNW)
1:100

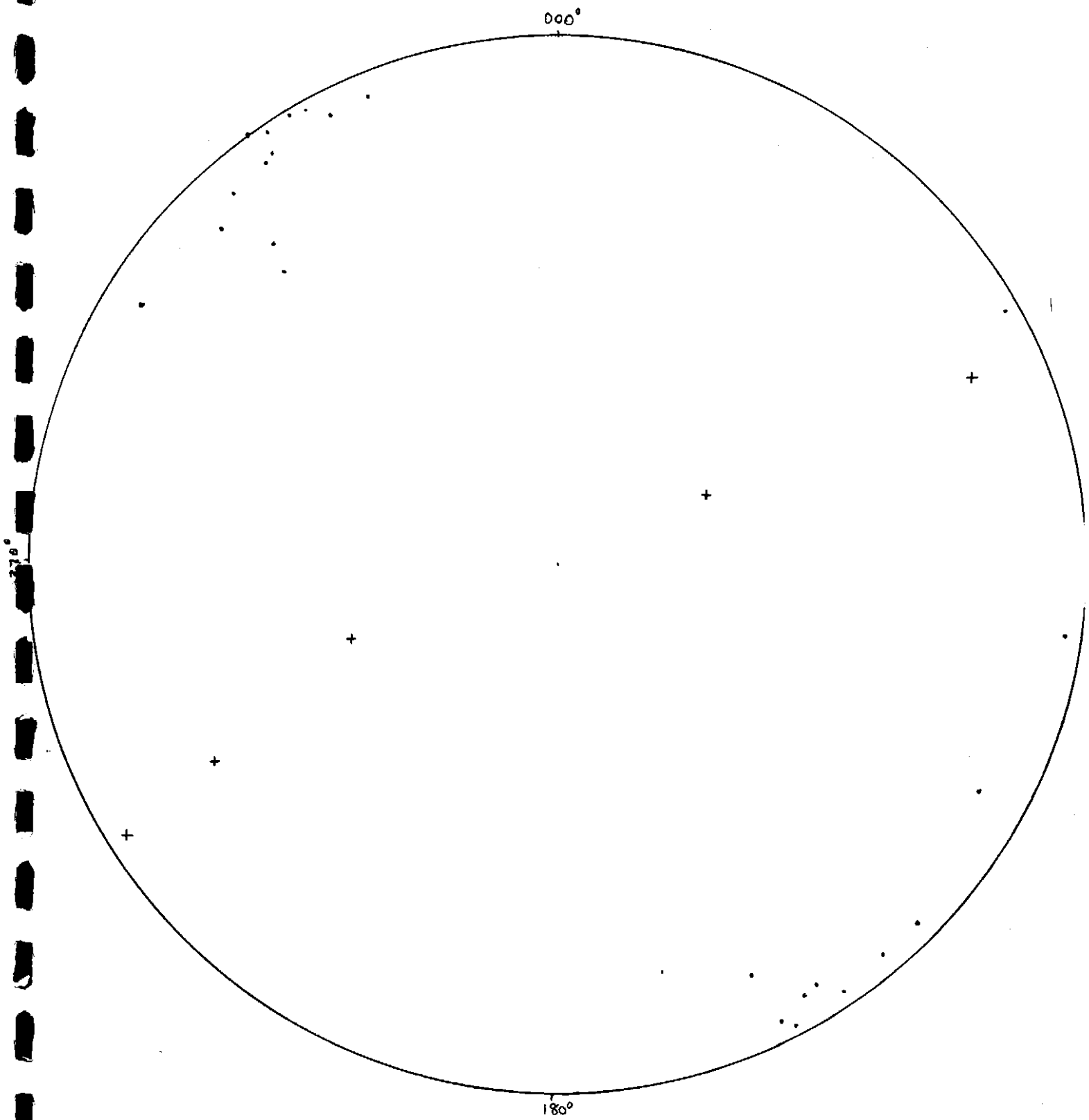


5 cm

C. SECTION YY' (LOOKING NNW)
1:100



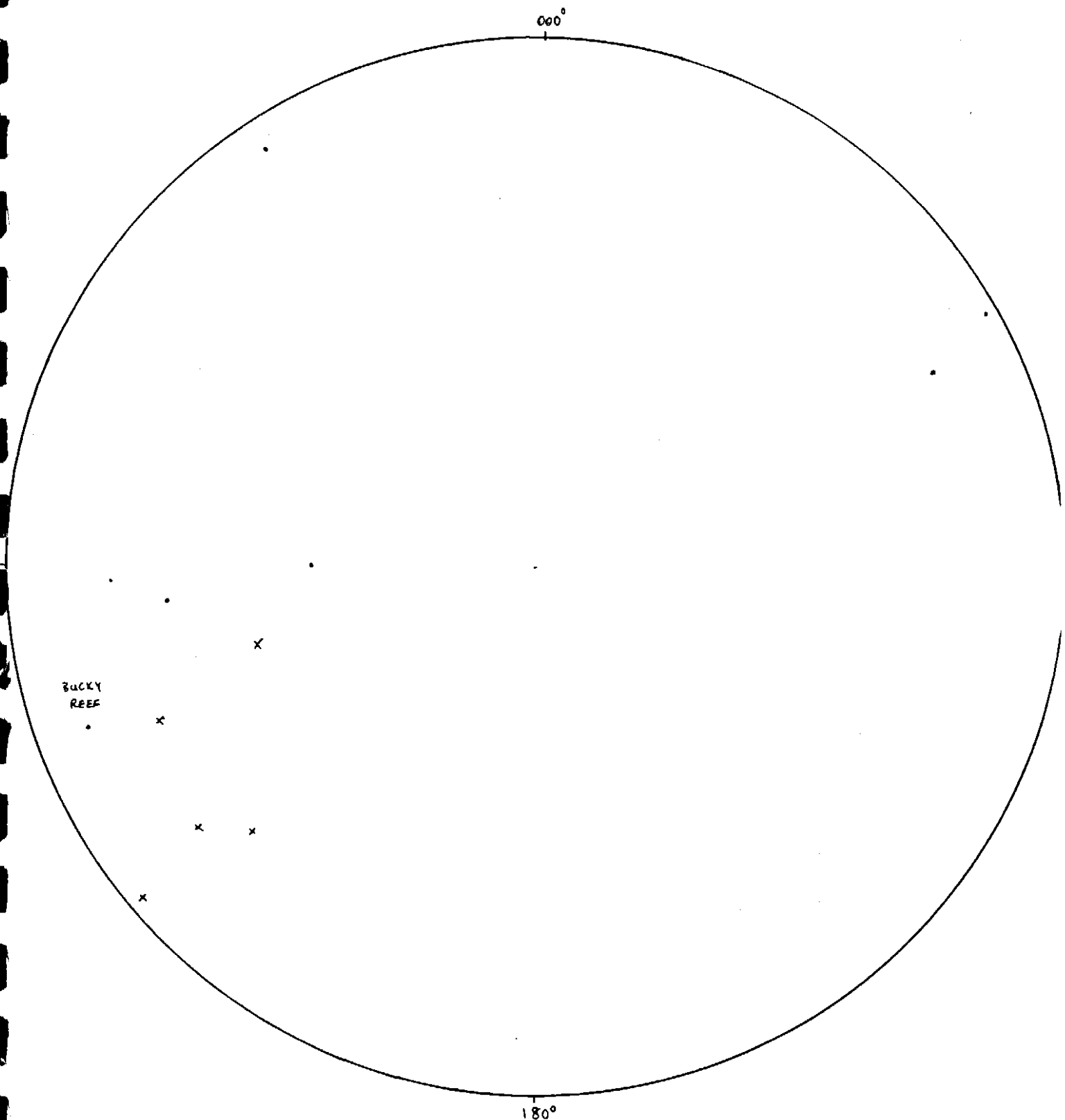
HORSESHOE



• POLES TO VEINS

+ POLES TO BEDDING

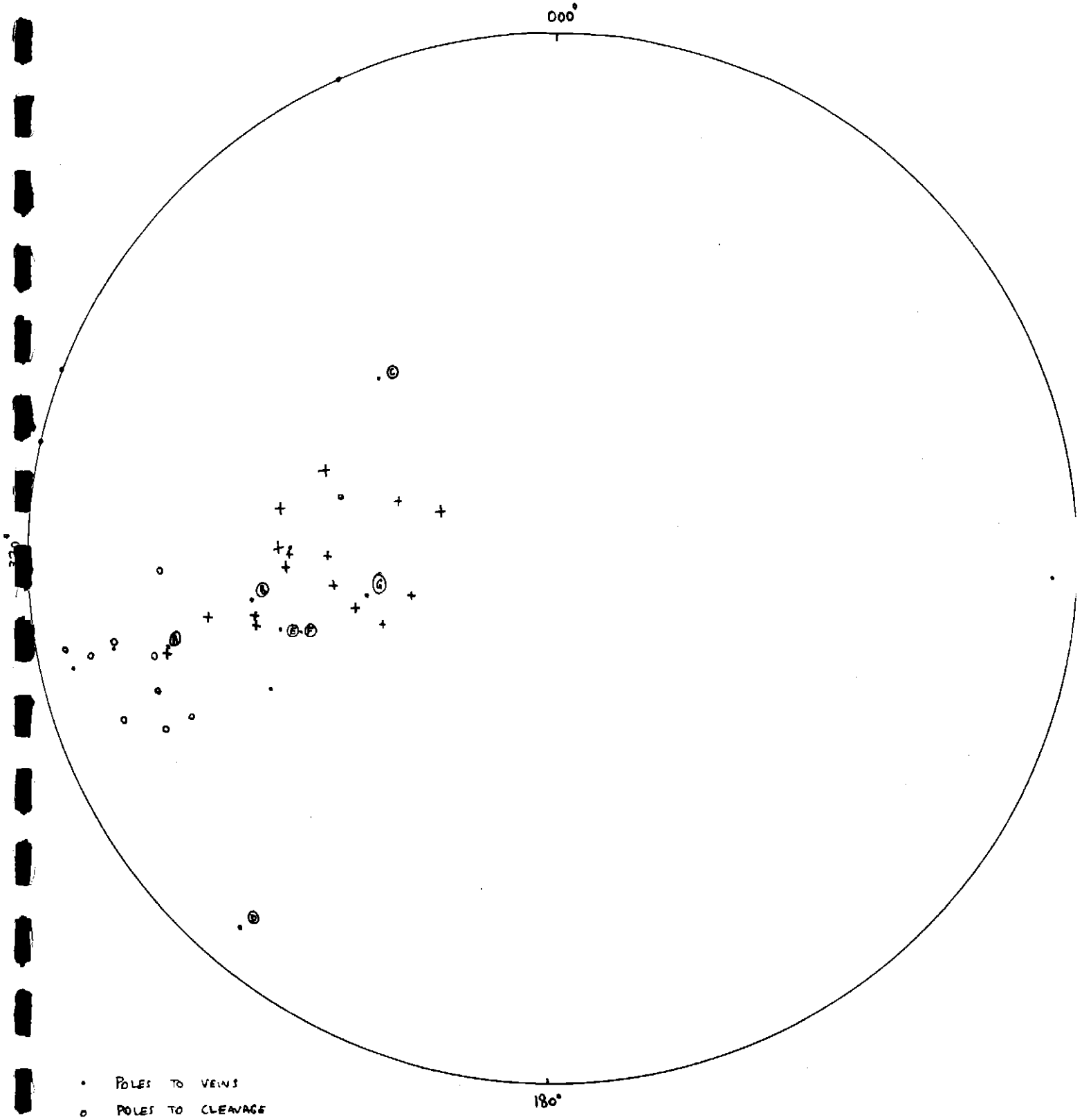
TELEGRAPH ADIT



- • POLES TO VEINS
- \+ POLES TO BEDDING
- × POLES TO FAULTS

329383

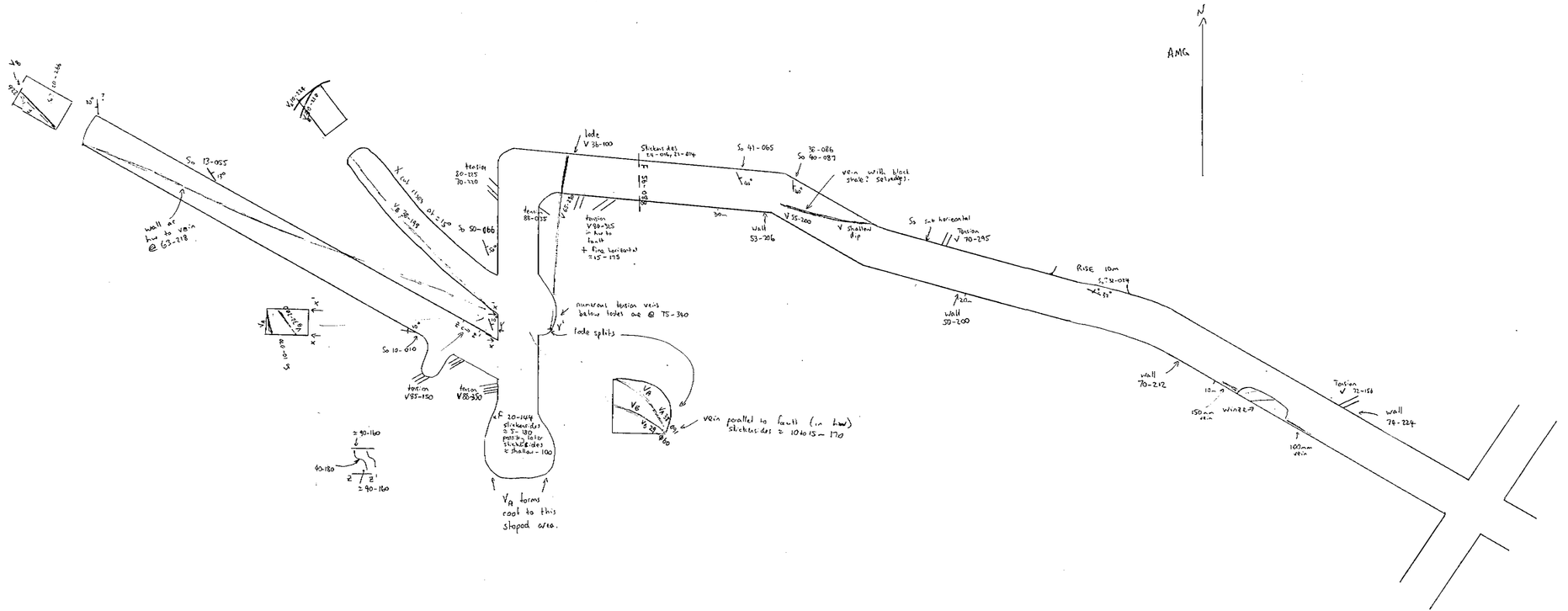
MINER'S DREAM



- POLES TO VEINS
- POLES TO CLEAVAGE
+ POLES TO BEDDING

E. PLAN NO 2 WEST X-CUT 1:100

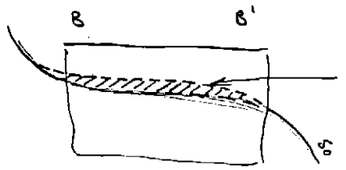
5 cm

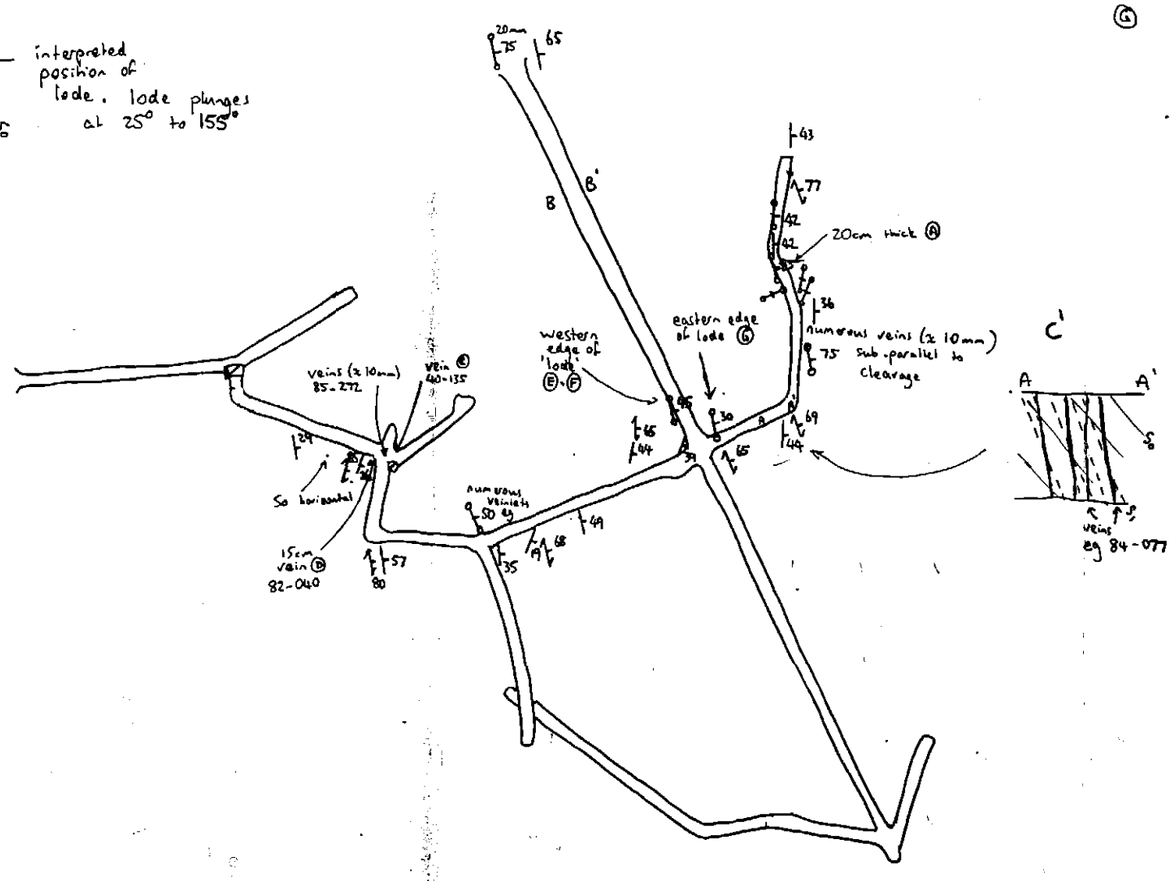


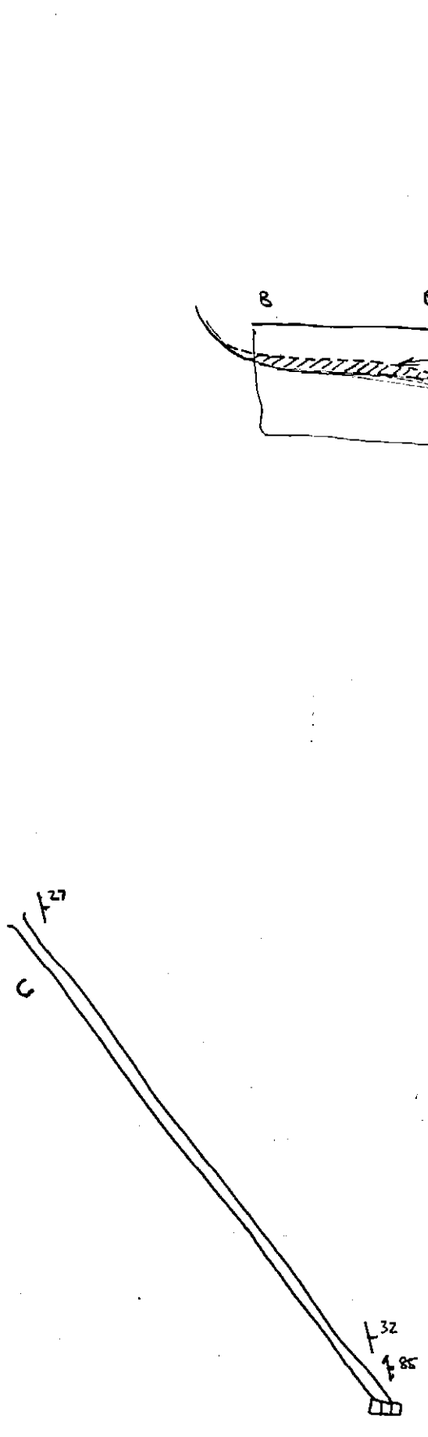
329389

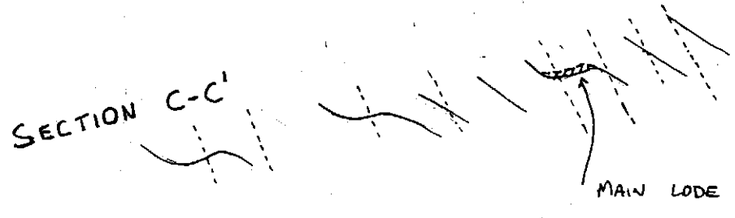
DOLLIED SAMPLES.

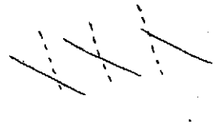
- (A) no gold, abundant arsenopyrite
- (B) 2 medium grains, 7 fine grains and minor arsenopyrite
- (C) 2 coarse grains, 1 medium grain and minor arsenopyrite
- (D) 2 coarse, 20 medium grains, abundant pyrite > arsenopyrite.
- (E) no gold, minor arsenopyrite > pyrite
- (F) 1 coarse grain, minor arsenopyrite > pyrite.
- (G) 8 medium, 2 fine grains, abundant arsenopyrite > pyrite









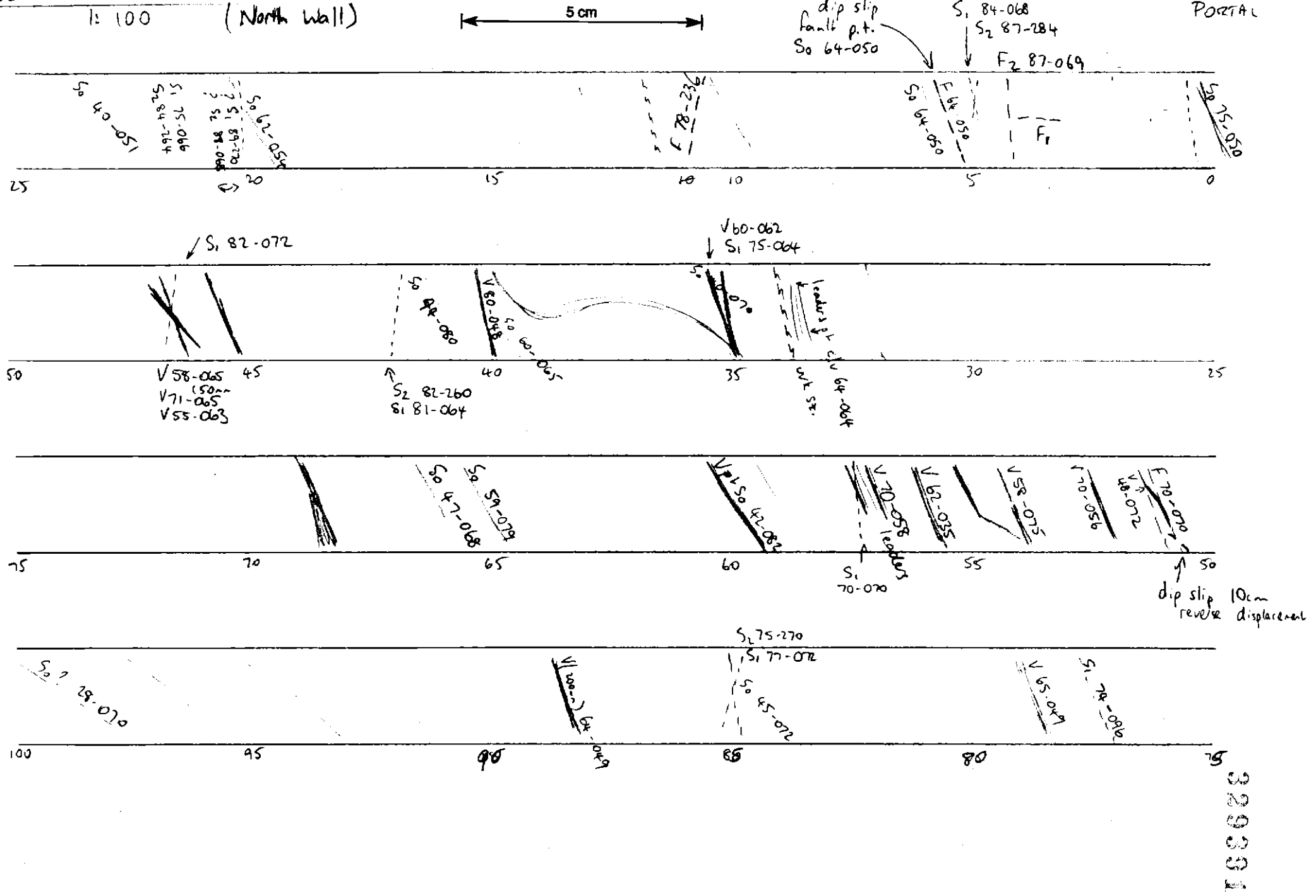


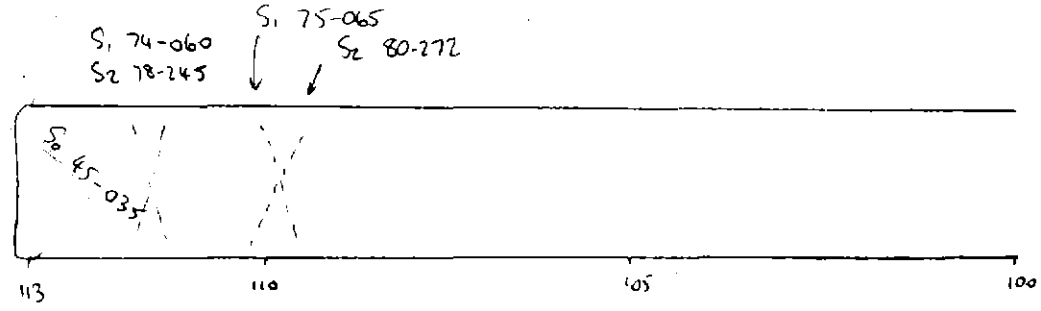
Scale = 1:50cm

5 cm

329360

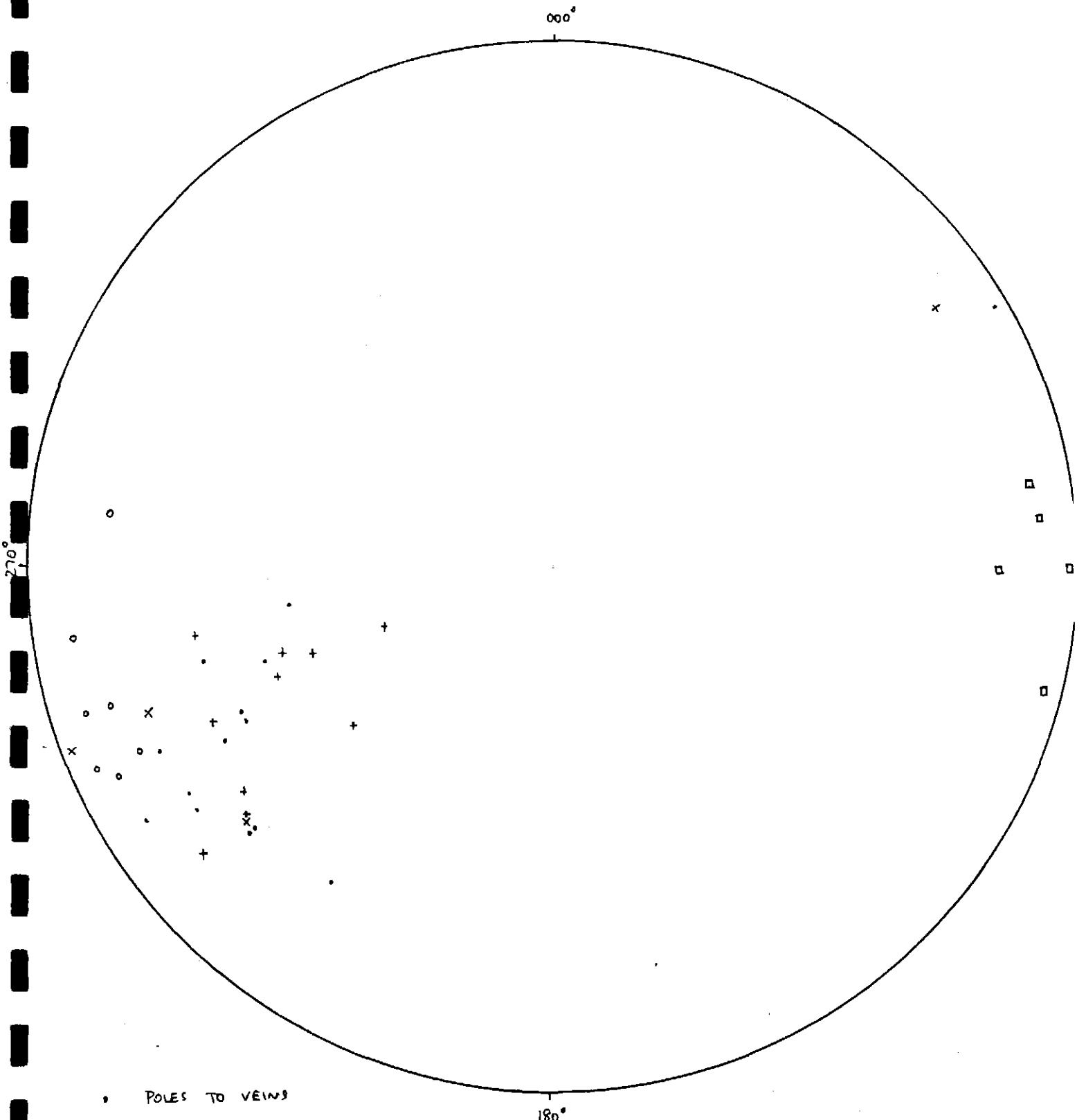
A. SOUTH MINERS DREAM ADIT
1: 100 (North Wall)





SOUTH MINERS DREAM ADIT

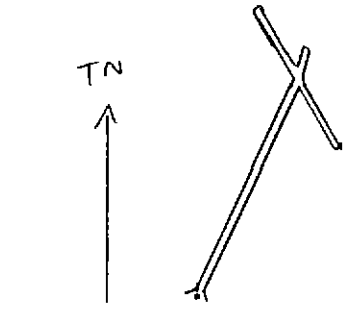
329393



- • POLES TO VEINS
- \+ POLES TO BEDDING
- o POLES TO CLEAVAGE (S_1)
- □ POLES TO CLEAVAGE (S_2)
- × POLES TO FAULTS

359 - G

A. PLAN 1:1000



5 cm

leaders
eg
53-062

So
52-034

F 76-240

S1 65-069
So 49-070
49-068

Shallow to 060

Fault wall
74-076.
Slicks 45-155

or S1 - S2

? S1 75-065 ?
So 70-280 ?

So
45-061

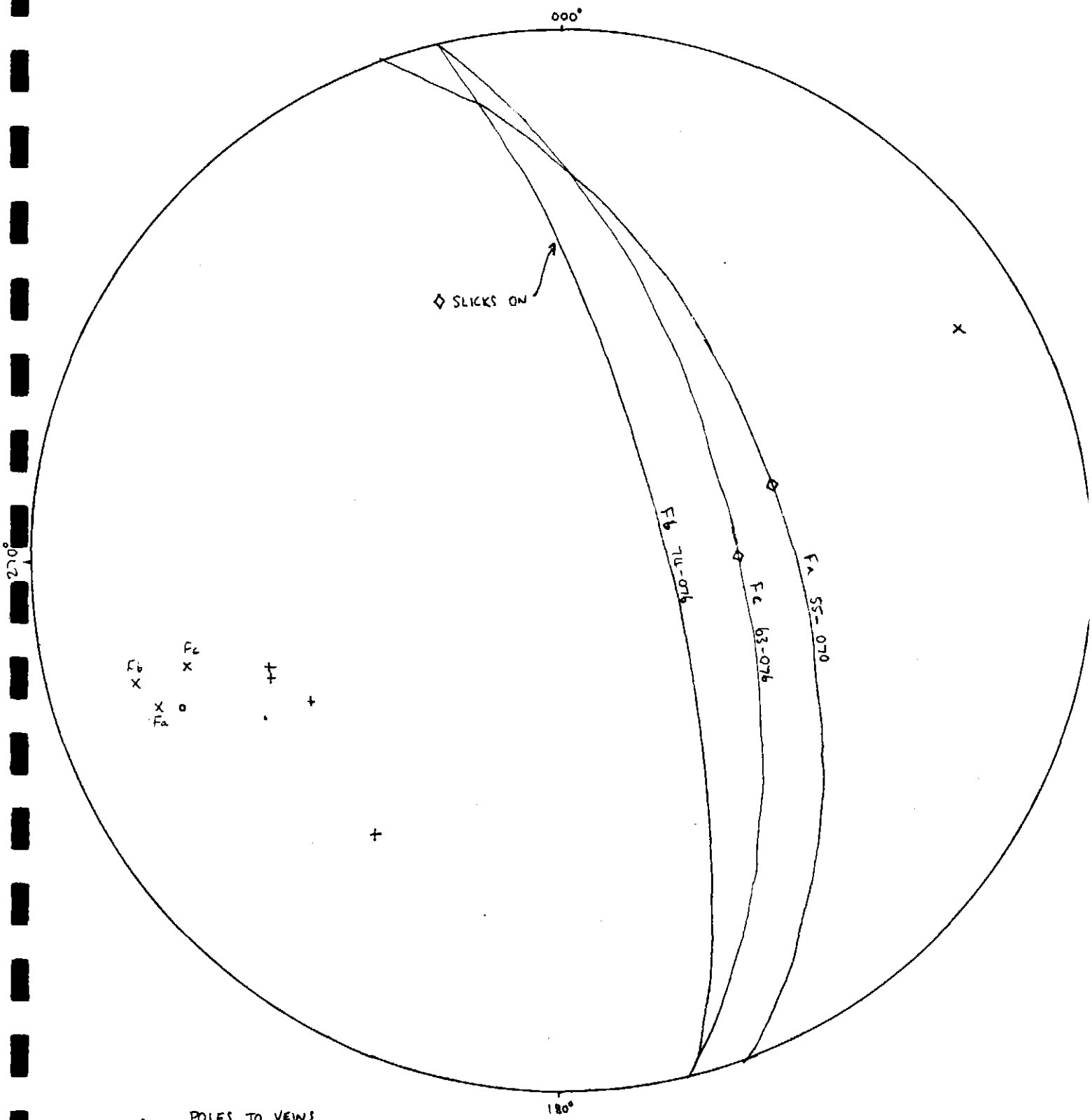
Fault
wall
55-070
Slickensides
vertical.

Fault wall
63-076 slicks.
87° to north.

0m
10m
20m
30m

359-G ADIT

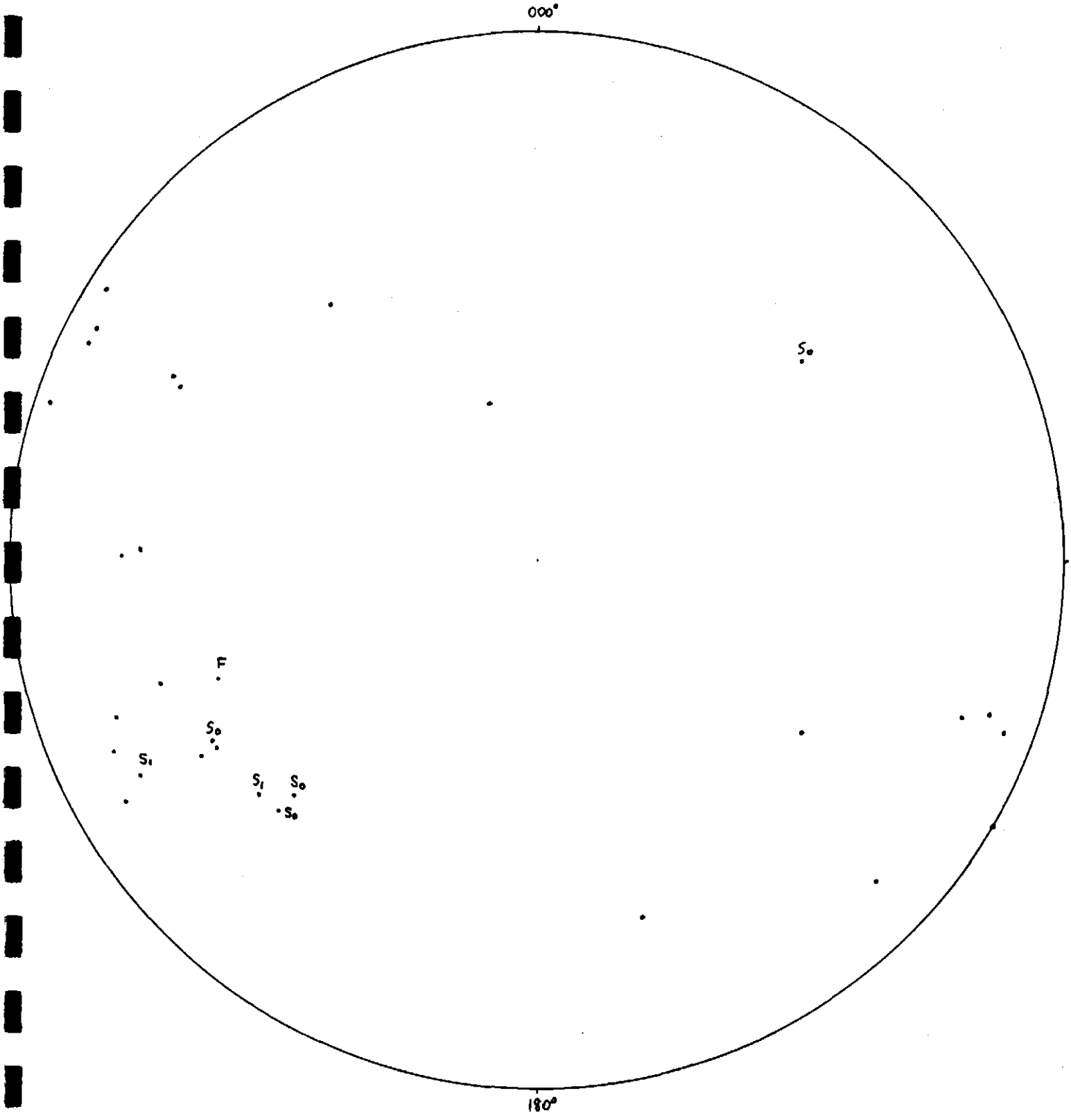
329395



- . POLES TO VEINS
- + POLES TO BEDDING
- o POLES TO CLEAVAGE (S_1)
- × POLES TO FAULTS
- ◇ SLICKENSIDES

CHINAMENS HILL COSTEAN

329396



APPENDIX F

Rock Sample Locations, Descriptions and Assay Results

RESOLUTE RESOURCES LIMITED - ROCK SAMPLE **LOCATION / DESCRIPTION / ASSAYS**

SAMPLE NO.	SAMPLE LOCATION AMG CO-ORDS OR DESCRIPTIONS	SAMPLE DESCRIPTION	ASSAYS - Fe in %, all other in ppm										
			Au	As	Ag	Sb	Cu	Pb	Zn	Bi	W	Fe	Mn
379514	adjacent to Old Boys opencut	'lode cap'	2.28	3300	<0.5	39	200	170	390	6	3	17.0	290
379515	"	ferruginous silicified wall rock	0.31	840	5.0	4	35	50	70	<2	<2	3.0	900
379516	"	'lode cap'	0.11	105	2.0	5	110	40	130	<2	2	17.0	120
379517	"	"	0.02	55	<0.5	2	35	45	150	<2	<2	12.0	280
379518	"	"	1.11	1900	<0.5	10	150	60	110	<2	3	11.0	190
379519	"	"	0.12	150	<0.5	5	115	48	195	<2	2	25.0	120
379520	"	"	0.03	120	<0.5	2	10	25	30	<2	<2	4.6	54
379521	Volunteer Consolidated mullock	buck qtz in sericitic siltstone	0.18	290	<0.5	<2	10	25	40	<2	<2	2.1	1500
379522	from dump at shaft	"	0.35	45	<0.5	<2	<5	40	60	<2	2	2.4	1600
379523	"	blue/grey qtz, laminated	4.78	38000	180	56	10	4400	2600	18	2	4.3	690
379524	"	" "	2.11	16000	50	24	10	530	260	2	2	2.7	680
379525	"	bucky qtz with occasional arsenopyrite veinlets	7.19	340	<0.5	2	10	50	40	<2	<2	1.8	1800
379526	"	stockwork qtz in dark finegrained siltstone	1.24	310	<0.5	2	5	40	130	<2	6	2.8	580
379527	"	" "	0.72	170	<0.5	3	90	20	140	<2	8	4.0	810
379528	"	fine ferruginous veinlets in siltstone	0.33	130	<0.5	3	20	30	140	<2	9	4.8	850
379529	"	" "	0.29	75	<0.5	2	10	25	110	<2	5	4.5	1200
379530	"	" "	0.22	90	<0.5	2	10	15	90	<2	5	3.4	780
379531	"	stockwork qtz in dark finegrained siltstone	0.11	200	<0.5	2	73	30	130	<2	7	4.2	800
379532	"	" "	0.20	40	<0.5	<2	20	40	40	<2	3	1.3	470
379533	Old Boys mullock from	kink banded shale with 3mm qtz carb veinlets	0.18	190	<0.5	2	15	30	90	<2	8	3.9	880
379534	dump near shaft	ferruginous buck quartz	0.20	30	<0.5	<2	10	25	20	<2	<2	1.0	120
379535	"	saccharine qtz in sericitised shale	0.17	180	<0.5	<2	5	35	70	<2	5	2.2	570
379536	"	ferruginous buck qtz in shale.	0.39	50	<0.5	<2	20	25	45	<2	3	2.5	760
379537	"	stockwork qtz in dark grey siltstone	0.08	90	<0.5	<2	18	35	35	<2	<2	2.0	965
379538	"	fine ferruginous veinlets in kink banded shale	0.03	65	<0.5	2	15	70	95	<2	3	4.2	1400
379539	"	bucky qtz in shale	0.11	1800	<0.5	2	35	100	75	<2	<2	1.1	540
379540	"	" "	0.14	58	<0.5	<2	<5	88	40	<2	2	1.8	1300
379545	7350N 4300N float	ferruginous stockwork in siltstone	0.15	440	<0.5	3	25	120	130	<2	2	13.0	120
379546	7400N 4300E float	'lode cap'	0.02	170	<0.5	8	120	110	190	<2	<2	12.0	140

RESOLUTE RESOURCES LIMITED - ROCK SAMPLE **LOCATION / DESCRIPTION / ASSAYS**

SAMPLE NO.	SAMPLE LOCATION AMG CO-ORDS OR DESCRIPTIONS	SAMPLE DESCRIPTION	ASSAYS - Fe in %, all other in ppm										
			Au	As	Ag	Sb	Cu	Pb	Zn	Bi	W	Fe	Mn
379547	7400N 4300E float	'lode cap'	0.02	220	<0.5	3	55	70	240	<2	82	1.40	300
379551	7650N 4200E float	ferruginous buck quartz	0.03	35	<0.5	2	5	25	15	<2	<2	1.0	73
379552	7550N 4200E float	"	0.01	10	<0.5	<2	<5	20	10	<2	<2	0.5	64
379553	Golden Gate Extended mullock	buck qtz stockwork in green siltstone	0.02	820	<0.5	<2	<5	35	20	<2	<2	1.3	1500
379554	From dump rear shaft	" "	0.01	25	<0.5	<2	15	45	85	<2	<2	3.6	5700
379555	"	" "	0.02	35	<0.5	<2	15	40	40	<2	<2	1.4	1300
379556	"	bucky qtz in pale green siltstone	0.03	20	<0.5	<2	15	110	40	<2	<2	1.8	2700
379557	"	" "	0.01	15	<0.5	<2	40	40	60	<2	<2	2.3	2600
379558	6400N 4925E float	ferruginous fractures in bucky qtz	<0.01	50	<0.5	<2	15	90	40	<2	<2	2.0	1400
379559	7100N 4800E float	'lode cap'	0.04	1200	<0.5	<2	35	35	60	<2	3	6.8	130
379560	6400N 4900E float	150mm qtz in ferruginous wall rock.	0.01	150	<0.5	<2	10	88	63	<2	<2	4.0	2300
379561	6400N 4900E float	buck with ferruginous wall rock.	0.01	15	<0.5	<2	<5	25	15	<2	<2	0.8	150
379562	6400N 4900E float	buck with manganese staining	0.01	170	<0.5	2	15	60	100	<2	<2	9.5	6400
379563	6600N 4850E float	brecciated buck with ferruginous fractures	0.01	20	<0.5	<2	<5	25	15	<2	<2	1.0	280
379564	6400N 5000E float	buck	0.01	20	<0.5	<2	<5	<5	15	<2	<2	0.7	89
379565	6800N 4350E float	fine qtz stockwork in brecciated siltstone	0.02	20	<0.5	<2	<5	25	30	<2	<2	1.2	770
379566	6700N 4250E float	buck with ferruginous fractures	<0.01	10	<0.5	2	10	25	40	<2	<2	1.8	440
379567	7100N 4725E float	fine qtz stockwork in silicified massive siltstone	0.02	80	<0.5	<2	<5	10	10	<2	<2	1.0	110
379568	7100N 4700E float	" "	0.02	40	<0.5	<2	5	15	10	<2	<2	1.0	72
379569	7100N 4700E float		0.19	40	<0.5	<2	5	5	10	<2	<2	1.1	47
379570	7100N 4700E float		0.01	<10	<0.5	<2	<5	<5	10	<2	<2	0.6	59
379571	7100N 4700E float		0.08	680	<0.5	2	25	25	70	<2	<2	4.6	71
379575	Voluntee Consolidated dump	laminated blue/grey arsenopyritic quartz	63.1	12000	19.0	16	55	210	85	4	6	2.4	420
379576	± 7550N 3250E float	qtz stockworked siltstone	1.42	560	<0.5	2	5	20	75	<2	2	1.4	170
379656	9880N 3400E float	ferruginous buck	0.02	<10	<0.5	<2	10	5	5	<2	<2	1.2	130

IN → PLATE 5

6633233

RESOLUTE RESOURCES LIMITED - ROCK SAMPLE **LOCATION / DESCRIPTION / ASSAYS**

SAMPLE NO.	SAMPLE LOCATION AMG CO-ORDS OR DESCRIPTIONS	SAMPLE DESCRIPTION	ASSAYS - Fe in %, all other in ppm										
			Au	As	Ag	Sb	Cu	Pb	Zn	Bi	W	Fe	Mn
379598	5140N 4550E Float	ferruginous buck	0.07	<10	<0.5	<2	5	15	10	<2	<2	0.70	90
379599	5160N 4550E Float	"	0.05	50	<0.5	<2	20	10	30	<2	<2	1.00	95
379600	5200N 4550E Float	fibrous qtz in siltstone	0.03	90	<0.5	<2	70	5	45	<2	<2	0.70	65
379601	5100N 4575E Float	"	0.09	170	<0.5	<2	30	25	98	<2	<2	2.17	132
379602	5100N 4575E Float	buck in siltstone	0.16	30	<0.5	<2	5	<5	<5	<2	<2	0.30	65
379603	5100N 4575E Float	"	0.05	40	<0.5	<2	15	5	30	<2	<2	<0.01	50
379604	Telegraph 5075N 4650E	'lode cap'	0.25	250	<0.5	<2	210	25	225	<2	<2	<0.01	3330
379605	Shaft 5075N 4650E	ferruginous buck	0.27	150	0.6	<2	110	10	55	<2	<2	2.65	890
379606	mullock 5075N 4650E	"	0.47	280	<0.5	5	15	5	45	<2	<2	0.40	415
379644	Telegraph Shaft channel 4.5m	buck qtz taken at bottom of shaft	0.01	10	0.8	<2	70	15	118	<2	<2	4.75	820
379645	" " 1.0m	± 95% shale 5% extensive veins - at bottom	0.07	10	0.6	<2	70	20	145	<2	<2	7.10	730
379646	Telegraph Shaft channel 80cm	on N.W. side 5m down shaft, buck reef	1.63	30	0.5	<2	35	30	55	<2	<2	1.80	440
379647	" " 60cm	on S.E. side at bottom - buck reef	0.19	50	0.6	<2	25	15	100	<2	<2	2.95	2290
379648	" " 60cm	on N.W. side at bottom - buck reef	0.12	<10	0.7	<2	20	15	125	<2	<2	4.60	715
379649	7600N 4245E Float	lode cap	0.01	<10	0.7	<2	10	15	20	<2	<2	4.60	65
379650	Telegraph adit.	ferruginous buck near mouth of adit	0.01	<10	0.5	<2	5	10	5	<2	<2	0.90	90
379651	"	" " "	0.04	<10	0.6	<2	40	25	80	<2	<2	4.30	130
379657	9900N 3440E Float	ferruginous siltstone qtz stockworked	1.25	160	<0.5	<2	5	15	5	<2	<2	1.30	115
379658	9900N 3445E Float	" "	0.66	170	<0.5	<2	5	10	5	<2	<2	1.00	95
379659	9900N 3445E Float	ferruginous buck / silicified wall rock	1.20	110	<0.5	<2	<5	25	<5	10	<2	0.65	75
379660	9900N 3460E Float	'lode cap'	0.05	560	<0.5	<2	15	50	25	<2	<2	9.00	70
379661	9895N 3465E Float	ferruginous siltstone, qtz stockworked	0.03	150	<0.5	<2	10	30	5	<2	<2	1.65	35
379662	9890N 3465E Float	'lode cap' / stockworked siltstone	0.11	380	<0.5	<2	10	30	15	<2	<2	6.10	70
379663	9890N 3470E Float	'lode cap'	0.28	120	<0.5	<2	10	35	10	<2	<2	2.50	65
379664	9800N 3445E Float	buck	0.20	200	<0.5	<2	5	15	5	<2	<2	1.7	50
379665	9780N 3460E Float	'lode cap' / stockwork	0.18	430	<0.5	<2	5	20	35	<2	<2	10.7	145
379666	9750N 3450E Float	buck / stockwork	0.01	90	<0.5	<2	5	20	10	<2	<2	3.25	60
379667	9690N 3490E Float	stockworked siltstone	0.03	530	<0.5	<2	10	60	30	<2	<2	6.50	75
379668	9700N 3490E Float	extensively stockworked siltstone	<0.01	<10	<0.5	<2	<5	5	<5	5	<2	0.80	65
379669	9650N 3480E Float	buck ferruginous adjacent to pothole	0.01	20	<0.5	<2	5	5	<5	<2	<2	1.15	90
379670	9710N 3320E Float	'lode cap' in pot hole	0.16	80	<0.5	<2	5	10	15	<2	<2	3.30	160
379671	9710N 3320E Float	" "	0.92	<10	<0.5	10	10	20	20	<2	<2	4.25	1400
379672	9710N 3330E Float	stockwork in sericitised siltstone	0.42	60	<0.5	<2	5	10	<5	<2	<2	0.80	260

at 5075N 4650E shaft →

at 5000N 4610E shaft

00769

RESOLUTE RESOURCES LIMITED - ROCK SAMPLE **LOCATION / DESCRIPTION / ASSAYS**

SAMPLE NO.	SAMPLE LOCATION AMG CO-ORDS OR DESCRIPTIONS	SAMPLE DESCRIPTION	ASSAYS - Fe in %, all other in ppm										
			Au	As	Ag	Sb	Cu	Pb	Zn	Bi	W	Fe	Mn
379685	9700N 3425E float	qtz stockworked siltstone.	<0.01	40	<0.5	<2	5	10	10	<0.01	<2	1.80	70
379686	5090N 4465E float	20cm parallel veins in sericitised siltstone.	0.52	10	<0.5	<2	95	25	60	<0.01	<2	1.83	825
379687		fine extension veins in siltstone.	0.14	290	<0.5	<2	5	25	5	<0.01	<2	1.35	25
379689	Golden Stairs mullock in	bands of quartz in siltstone with arsenopyrite	0.59	2730	<0.5	<2	<5	70	<5	<0.01	<2	0.70	65
379690	paddock	blue grey brecciated qtz with arsenopyrite	11.4	3960	8.3	<2	45	145	235	<0.01	<2	0.90	120
379692	"	blue/grey brecciated qtz with arsenopyrite	28.3	2860	17.5	<2	110	190	245	<0.01	<2	0.70	130
379693	"	sandstone with qtz-arsenopyrite veinlets	0.16	3060	<0.5	<2	5	15	30	<0.01	<2	1.00	170
379694	"	ferruginous/bucky quartz in siltstone	0.19	1300	<0.5	<2	20	30	20	<0.01	<2	3.15	70
379695	"	sandstone with qtz stockwork.	0.24	200	<0.5	<2	5	20	20	<0.01	<2	2.30	390
379697	"	grey siltstone with stockwork qtz-asp.	0.57	2460	<0.5	<2	5	30	25	<0.01	<2	1.05	200
379698	"	" "	0.96	6200	<0.5	<2	<5	20	5	<0.01	<2	1.15	515
379699	"	ferruginous qtz-asp(?) veinlets in sericitised siltstone.	0.16	1200	<0.5	<2	25	30	85	<0.01	<2	1.95	220
379791	Chinaman's Hill No1 Costean	weathered qtz stockworked siltstone.	20.8	140									
379792	Chinaman's Hill No2 Costean	smoky grey qtz veins in siltstone	7.35	300									
379793	"	" "	4.92	680									
379794	"	blue grey qtz vein in siltstone.	4.06	3540									
379789	City of Hobart Mullal	laminated blue/grey quartz	4.80	1730									

SEE APPENDIX I PAGE 6.

329402

MinLab

MINCULTURE LABORATORIES PTY LTD ACN 008 960 174 TRUSTEE FOR THE MINLAB UNIT TRUST TRADING AS MINLAB

18A Denninup Way
MALAGA WA 6062
Tel: (09) 249 5277
Fax: (09) 249 5323

257A Forrest Street
KALGOORLIE WA 6430
Tel: (090) 21 5664
Fax: (090) 91 2200

Lot 484 Criddle St
MT MAGNET WA 6638
Tel: (099) 634 532
Fax: (099) 634 531

ANALYTICAL REPORT

Reference No: P52170

Date: 31 DEC 94

AREA COLORED : MYTHOMA

SAMPLE TYPE : ROCKS

Samples Received: 13 DEC 94
Order Number : K9407A
Project Number : N/A
Samples in Batch: 63

THIS REPORT HAS BEEN PREPARED FOR

RESOLUTE RESOURCES LTD

AND SHOULD BE READ IN CONJUNCTION WITH THE FINAL PAGE

Authorised by: A.J. Ferguson
(A.J. Ferguson)

ATTN: G McDONALD
RESOLUTE RESOURCES LTD
MANGANA RD
FINGAL TAS 7214

329403

Reference No: P52170 **ATTN: G McDONALD** Page: 1

	Au ppm	Au(R1) ppm	Au(R2) ppm	As ppm	Ag ppm	Bi ppm	Cu ppm
Detn Limit	0.01	0.01	0.01	10	0.5	2	5
379514	2.44	1.61	2.79	3300	<0.5	6	200
379515	0.31			840	5.0	<2	35
379516	0.11			110	2.0	<2	110
379516 Rpt	0.10			100	2.0	<2	110
379517	0.02			55	<0.5	<2	35
379518	1.11			1900	<0.5	<2	150
379519	0.13			150	<0.5	<2	110
379519 Rpt	0.11			150	<0.5	<2	120
379520	0.03			120	<0.5	<2	10
379521	0.18			290	<0.5	<2	10
379522	0.35			45	<0.5	<2	<5
379523	410.	545.		3.800%	180.	18	10
379524	20.4	328.	285.	1.600%	50.0	2	10
379525	7.19			340	<0.5	<2	10
379526	1.24			310	<0.5	<2	5
379527	0.72			170	<0.5	<2	90
379528	0.34	0.31		130	<0.5	<2	20
379529	0.29			75	<0.5	<2	10
379530	0.22			90	<0.5	<2	10
379531	0.09			210	<0.5	<2	70
379531 Rpt	0.13			190	<0.5	<2	75
379532	0.20			40	<0.5	<2	20
379533	0.18			190	<0.5	<2	15
379534	0.20			30	<0.5	<2	10
379535	0.17			180	<0.5	<2	5
379536	0.47			50	<0.5	<2	20
379536 Rpt	0.30			50	<0.5	<2	20
379537	0.08			90	<0.5	<2	20
379537 Rpt	0.08			90	<0.5	<2	15
379538	0.03			65	<0.5	<2	15
379539	0.11			1200	<0.5	<2	35
379540	0.13			60	<0.5	<2	<5
379540 Rpt	0.15			55	<0.5	<2	<5
379545	0.15			440	<0.5	<2	25
379546	0.02			170	<0.5	<2	120
379547	0.02			220	<0.5	<2	55
379548	0.25			30	<0.5	<2	10
379549	0.01			15	<0.5	<2	5
379550	0.05			190	<0.5	<2	10
379551	0.03			35	<0.5	<2	5
379552	0.01			10	<0.5	<2	<5
379553	0.02			820	<0.5	<2	<5
379554	0.01			25	<0.5	<2	15
379555	0.02			35	<0.5	<2	15
379556	0.03			20	<0.5	<2	15
379557	0.01			15	<0.5	<2	40
379558	<0.01			50	<0.5	<2	15
379559	0.04			1200	<0.5	<2	35

MATHINNA

	Au ppm	Au(R1) ppm	Au(R2) ppm	As ppm	Ag ppm	Bi ppm	Cu ppm
Detn Limit	0.01	0.01	0.01	10	0.5	2	5
379560	0.01			150	<0.5	<2	10
379560 Rpt	0.01			150	<0.5	<2	10
379561	0.01			15	<0.5	<2	<5
379562	0.01			170	<0.5	<2	15
379563	0.01			20	<0.5	<2	<5
379563 Rpt	0.01			20	<0.5	<2	<5
379564	0.01			20	<0.5	<2	<5
379564 Rpt	0.01			20	<0.5	<2	<5
379565	0.02			20	<0.5	<2	<5
379566	<0.01			10	<0.5	<2	10
379567	0.02			80	<0.5	<2	<5
379568	0.02			40	<0.5	<2	5
379569	0.19			40	<0.5	<2	5
379570	0.01			<10	<0.5	<2	<5
379571	0.08			680	<0.5	<2	25
379575	64.3	61.8		1.200%	19.0	4	55
379576	1.42			560	<0.5	<2	5

Reference No: P52170 **ATTN: G McDONALD**

	Fe %	Mn ppm	Pb ppm	Sb ppm	W ppm	Zn ppm
Detn Limit	0.1	1	5	2	2	5
379514	17.0	290	170	39	3	390
379515	3.0	900	50	4	<2	70
379516	17.0	120	40	5	2	130
379516 Rpt	17.0	120	40	5	2	130
379517	12.0	280	45	2	<2	170
379518	11.0	190	60	10	3	110
379519	25.0	120	45	5	2	190
379519 Rpt	25.0	120	50	5	2	200
379520	4.6	54	25	2	<2	30
379521	2.1	1500	25	<2	<2	40
379522	2.4	1600	40	<2	2	60
379523	4.3	690	4400	56	2	2600
379524	2.7	680	530	24	2	260
379525	1.8	1800	50	2	<2	40
379526	2.8	580	40	2	6	130
379527	4.0	810	20	3	8	140
379528	4.8	850	30	3	9	140
379529	4.5	1200	25	2	5	110
379530	3.4	780	15	2	5	90
379531	4.2	800	30	2	7	130
379531 Rpt	4.2	800	30	2	6	130
379532	1.3	470	40	<2	3	40
379533	3.9	880	30	2	8	90
379534	1.0	120	25	<2	<2	20
379535	2.2	570	35	<2	5	70
379536	2.5	750	25	<2	3	45
379536 Rpt	2.5	770	20	<2	3	45
379537	2.0	960	35	<2	<2	35
379537 Rpt	2.0	970	35	<2	<2	35
379538	4.2	1400	70	2	3	95
379539	1.1	540	100	2	<2	75
379540	1.8	1300	90	<2	2	40
379540 Rpt	1.8	1300	85	<2	2	40
379545	13.0	120	120	3	2	130
379546	12.0	140	110	8	<2	190
379547	14.0	200	70	3	<2	240
379548	2.5	55	20	<2	<2	65
379549	4.2	38	55	<2	<2	15
379550	6.0	220	30	27	2	230
379551	1.0	73	25	2	<2	15
379552	0.5	64	20	<2	<2	10
379553	1.3	1500	35	<2	<2	20
379554	3.6	5700	45	<2	<2	85
379555	1.4	1300	40	<2	<2	40
379556	1.8	2700	110	<2	<2	40
379557	2.3	2600	40	<2	<2	60
379558	2.0	1400	90	<2	<2	40
379559	6.8	130	35	2	3	60

	Fe %	Mn ppm	Pb ppm	Sb ppm	W ppm	Zn ppm
Detn Limit	0.1	1	5	2	2	5
379560	4.0	2300	90	<2	<2	65
379560 Rpt	3.9	2300	85	<2	<2	60
379561	0.8	150	25	<2	<2	15
379562	9.5	6400	60	2	<2	100
379563	1.0	300	25	<2	<2	15
379563 Rpt	0.9	240	25	<2	<2	15
379564	0.7	91	<5	<2	<2	15
379564 Rpt	0.7	87	5	<2	<2	15
379565	1.2	770	25	<2	<2	30
379566	1.8	440	25	2	<2	40
379567	1.0	110	10	<2	<2	10
379568	1.0	72	15	<2	<2	10
379569	1.1	47	5	<2	<2	10
379570	0.6	59	<5	<2	<2	10
379571	4.6	71	25	2	<2	70
379575	2.4	420	210	16	[illegible]	85
379576	1.4	170	20	2	2	75

****

% Implies this result reported in %

Au, Au(R1), Au(R2),
Technique - Fire Assay on a 50 gram charge

As, Ag, Cu, Fe, Mn, Pb, Sb, Zn,
Technique - AAS

Bi,
AAS

W,
Technique - Potassium Bi-Sulphate Fusion/Colorimetric

END OF REPORT

329408

MinLab

MINCULTURE LABORATORIES PTY LTD ACN 008 980 174 TRUSTEE FOR THE MINLAB UNIT TRUST TRADING AS MINLAB

18A Denninup Way
MALAGA WA 6062
Tel: (09) 249 5277
Fax: (09) 249 5323

257A Forrest Street
KALGOORLIE WA 6430
Tel: (090) 21 5664
Fax: (090) 91 2200

Lot 484 Criddle St
MT MAGNET WA 6638
Tel: (099) 634 532
Fax: (099) 634 531

ANALYTICAL REPORT

Reference No: P52218

Date: 11 JAN 95

AREA COVERED : MATHINNA / MANGANA

SAMPLE TYPE : ROCKS

Samples Received: 20 DEC 94
Order Number : K9409
Project Number : N/A
Samples in Batch: 54

THIS REPORT HAS BEEN PREPARED FOR

RESOLUTE RESOURCES LTD

AND SHOULD BE READ IN CONJUNCTION WITH THE FINAL PAGE

Authorised by: _____
(A.J. Ferguson)

ATTN: G McDONALD
RESOLUTE RESOURCES LIMITED
MANGANA RD
FINGAL TAS 7214

329409

Reference No: P52218 **ATTN: G McDONALD** Page: 1

	Au ppm	Au(R1) ppm	Au(R2) ppm	As ppm	Ag ppm	Bi ppm	Cu ppm	
Detn Limit	0.01	0.01	0.01	10	0.5	2	5	
379598	0.07			<10	<0.5	<2	5	
379599	0.05			50	<0.5	<2	20	
379600	0.03			90	<0.5	<2	70	
379601	0.09			140	<0.5	<2	30	MMTH/MMH
379601 Rpt	0.08			200	<0.5	<2	30	17/21
379602	0.46	0.01	0.01	30	<0.5	<2	5	
379603	0.05			40	<0.5	<2	15	
379604	0.25			250	<0.5	<2	210	
379605	0.27			150	0.6	<2	110	
379606	0.47			280	<0.5	<2	15	

Reference No: P52218 **ATTN: G McDONALD**

	Fe %	Mn ppm	Pb ppm	Sb ppm	W ppm	Zn ppm
Detn Limit	0.01	5	5	2	2	5
379598	0.70	90	15	<2	<2	10
379599	1.00	95	10	<2	<2	30
379600	0.70	65	5	<2	<2	45
379601	2.05	130	25	<2	<2	95
379601 Rpt	2.30	135	25	<2	<2	100
379602	0.30	65	<5	<2	<2	<5
379603	<0.01	50	5	<2	<2	30
379604	<0.01	3330	25	<2	<2	225
379605	2.65	890	10	<2	<2	55
379606	0.40	415	5	5	<2	45

MATHINNA
17/91

Reference No: P52218 **ATTN: G McDONALD** Page: 2

	Au ppm	Au(R1) ppm	Au(R2) ppm	As ppm	Ag ppm	Bi ppm	Cu ppm	
Detn Limit	0.01	0.01	0.01	10	0.5	2	5	
379644	0.01			20	0.8	<2	70	
379644 Rpt	0.01			<10	0.7	<2	70	
379645	0.07			10	0.6	<2	70	
379646	1.33	1.19	2.38	30	0.5	<2	35	MATHINNA
379647	0.19			50	0.6	<2	25	
379648	0.12			<10	0.7	<2	20	17/91
379649	0.01			<10	0.7	<2	10	
379650	0.01			<10	0.5	<2	5	
379651	0.04			<10	0.6	<2	40	

	Fe %	Mn ppm	Pb ppm	Sb ppm	W ppm	Zn ppm	
Detn Limit	0.01	5	5	2	2	5	
379644	4.80	810	15	<2	<2	120	
379644 Rpt	4.70	830	15	<2	<2	115	
379645	7.10	730	20	<2	<2	145	
379646	1.80	440	30	<2	<2	55	
379647	2.95	2290	15	<2	<2	100	MATHINNA
379648	4.60	715	15	<2	<2	125	17/91
379649	4.60	65	15	<2	<2	20	
379650	0.90	90	10	<2	<2	5	
379651	4.30	130	25	<2	<2	80	

****

% Implies this result reported in %

Au, Au(R1), Au(R2),
Technique - Fire Assay on a 50 gram charge

As, Ag, Cu, Fe, Mn, Pb, Sb, Zn,
Technique - AAS

Bi,
Technique - AAS

W,
Technique - Potassium Bi-Sulphate Fusion/Colorimetric

END OF REPORT

MinLab

329414

MINCULTURE LABORATORIES PTY LTD ACN 008 960 174 TRUSTEES FOR THE MINLAB UNIT TRUST TRADING AS MINLAB

18A Denninup Way
MALAGA WA 6062
Tel: (09) 249 5277
Fax: (09) 249 5323

257A Forrest Street
KALGOORLIE WA 6430
Tel: (090) 21 5664
Fax: (090) 91 2200

Lot 484 Criddle St
MT MAGNET WA 6638
Tel: (099) 634 532
Fax: (099) 634 531

ANALYTICAL REPORT

Reference No: P52231

Date: 09 JAN 95

AREA COVERED: CUNNINGENS HILL, OCTOBER

SAMPLE TYPE: ROCKS 17/91 - 22/92

Samples Received: 28 DEC 94
Order Number : K9410B
Project Number : N/A
Samples in Batch: 21

THIS REPORT HAS BEEN PREPARED FOR

RESOLUTE RESOURCES LTD

AND SHOULD BE READ IN CONJUNCTION WITH THE FINAL PAGE

Authorised by: _____
(A.J. Ferguson)

ATTN: G McDONALD
RESOLUTE RESOURCES LTD
MANGANA RD
FINGAL TAS 7214

329415

Reference No: P52231 ATTN: G McDONALD Page: 1

	Au ppm	Au(R1) ppm	Au(R2) ppm	As ppm	Ag ppm	Bi ppm	Cu ppm
Detn Limit	0.01	0.01	0.01	10	0.5	2	5
379656	0.02			<10	<0.5	<2	10
379657	1.03	1.48		160	<0.5	<2	5
379658	0.66			170	<0.5	<2	5
379659	1.11	1.30		110	<0.5	10	<5
379660	0.05			560	<0.5	<2	15
379661	0.03			150	<0.5	<2	10
379662	0.11			380	<0.5	<2	10
379663	0.28			120	<0.5	<2	10
379664	0.18			210	<0.5	<2	5
379664 Rpt	0.22			190	<0.5	<2	5
379665	0.18			430	<0.5	<2	5
379666	0.01			90	<0.5	<2	5
379667	0.03			530	<0.5	<2	10
379668	<0.01			<10	<0.5	5	<5
379669	0.01			20	<0.5	<2	5
379670	0.18	0.14		80	<0.5	<2	5
379671	0.94			<10	<0.5	<2	10
379671 Rpt	0.96			<10	<0.5	<2	10
379672	0.42			60	<0.5	5	5

17/9

	Fe %	Mn ppm	Pb ppm	Sb ppm	W ppm	Zn ppm
Detn Limit	0.01	5	5	2	2	5
379656	1.20	130	5	<2	<2	5
379657	1.30	115	15	<2	<2	5
379658	1.00	95	10	<2	<2	5
379659	0.65	75	25	<2	<2	<5
379660	9.00	70	50	<2	<2	25
379661	1.65	35	30	<2	<2	5
379662	6.10	70	30	<2	<2	15
379663	2.50	65	35	<2	<2	10
379664	1.75	50	15	<2	<2	5
379664 Rpt	1.65	50	15	<2	<2	5
379665	10.7	145	20	<2	<2	35
379666	3.25	60	20	<2	<2	10
379667	6.50	75	60	<2	<2	30
379668	0.80	65	5	<2	<2	<5
379669	1.15	90	5	<2	<2	<5
379670	3.30	160	10	<2	<2	15
379671	4.35	150	20	10	<2	20
379671 Rpt	4.15	145	20	<2	<2	20
379672	0.80	260	10	<2	<2	<5

17/91

****

Au, Au(R1), Au(R2),
Technique - Fire Assay on a 50 gram charge

As, Ag, Cu, Fe, Mn, Pb, Sb, Zn,
Technique - AAS

W,
Technique - Potassium Bi-Sulphate Fusion/Colorimetric

END OF REPORT

MinLab

329418

MINCULTURE LABORATORIES PTY LTD ACN 008 980 174 TRUSTEE FOR THE MINLAB UNIT TRUST TRADING AS MINLAB

18A Denninup Way
MALAGA WA 6062
Tel: (09) 249 5277
Fax: (09) 249 5323

257A Forrest Street
KALGOORLIE WA 6430
Tel: (090) 21 5664
Fax: (090) 91 2200

Lot 484 Criddle St
MT MAGNET WA 6638
Tel: (099) 634 532
Fax: (099) 634 531

ANALYTICAL REPORT

Reference No: P60038

Date: 31 JAN 95

AREA COVERED: NORTHWARD, CHINAMENS HILL
MANGANA BUCKLANDS HILL

SAMPLE TYPE: ROCKS

Samples Received: 23 JAN 95
Order Number : K9414
Project Number : 17/91
Samples in Batch: 17

THIS REPORT HAS BEEN PREPARED FOR

RESOLUTE RESOURCES LIMITED

AND SHOULD BE READ IN CONJUNCTION WITH THE FINAL PAGE

Authorised by: _____
(A.J. Ferguson)

ATTN: G McDONALD
RESOLUTE RESOURCES LIMITED
MANGANA RD
FINGAL TAS 7214

329419

Reference No: P60038 **ATTN: G McDONALD** Page: 1

	Au ppm	Au(R1) ppm	Au(R2) ppm	As ppm	Ag ppm	Bi ppm	Cu ppm	
Detn Limit	0.01	0.01	0.01	10	0.5	0.01	5	
379685	<0.01			40	<0.5	<0.01	5	CHINAMAN'S HILL
379686	0.53			20	<0.5	<0.01	90	
379686 Rpt	0.50			<10	<0.5	<0.01	95	
379687	0.14			290	<0.5	<0.01	5	
379689	0.59			2730	<0.5	<0.01	<5	
379690	9.30	12.5	12.5	3960	8.3	<0.01	45	MATHINNA
379692	27.0	29.0	29.0	2860	17.5	<0.01	110	
379693	0.16			3060	<0.5	<0.01	5	
379694	0.19			1300	<0.5	<0.01	20	
379695	0.24			200	<0.5	<0.01	5	
379697	0.57			2460	<0.5	<0.01	5	
379698	0.96			6200	<0.5	<0.01	<5	MATHINNA
379699	0.21			1220	<0.5	<0.01	25	
379699 Rpt	0.10			1180	<0.5	<0.01	25	

	Fe %	Mn ppm	Pb ppm	Sb ppm	W ppm	Zn ppm
Detn Limit	0.01	1	5	2	2	5
379685	1.80	70	10	<2	<2	10
379686	1.80	810	25	<2	<2	60
379686 Rpt	1.85	840	25	<2	<2	60
379687	1.35	25	25	<2	<2	5
379689	0.70	65	70	<2	<2	<5
379690	0.90	120	145	<2	<2	235
379692	0.70	130	190	<2	<2	245
379693	1.00	170	15	<2	<2	30
379694	3.15	70	30	<2	<2	20
379695	2.30	390	20	<2	<2	20
379697	1.05	200	30	<2	<2	25
379698	1.15	515	20	<2	<2	5
379699	1.90	220	30	<2	<2	85
379699 Rpt	2.00	220	30	<2	<2	85

****

Au, Au(R1), Au(R2),
Technique - Fire Assay on a 50 gram charge

As, Ag, Cu, Fe, Mn, Pb, Sb, Zn,
Technique - AAS

Bi,
Technique - AAS

W,
Technique - Potassium Bi-Sulphate Fusion/Colorimetric

END OF REPORT

329422

MinLab

MINCULTURE LABORATORIES PTY LTD ACN 008 960 174 TRUSTEE FOR THE MINLAB UNIT TRUST TRADING AS MINLAB

18A Denninup Way
MALAGA WA 6062
Tel: (09) 249 5277
Fax: (09) 249 5323

257A Forrest Street
KALGOORLIE WA 6430
Tel: (090) 21 5664
Fax: (090) 91 2200

Lot 484 Criddle St
MT MAGNET WA 6638
Tel: (099) 634 532
Fax: (099) 634 531

ANALYTICAL REPORT

Reference No: P60653

Date: 30 APR 95

Samples Received: 26 APR 95
Order Number : K9420A
Project Number : N/A
Samples in Batch: 28

THIS REPORT HAS BEEN PREPARED FOR

RESOLUTE RESOURCES LIMITED

AND SHOULD BE READ IN CONJUNCTION WITH THE FINAL PAGE

Authorised by: _____
(A.J. Ferguson)

ATTN: G McDONALD
RESOLUTE RESOURCES LIMITED
MANGANA RD
FINGAL TAS 7214

329423

Reference No: P60653 **ATTN: G McDONALD** Page: 1

	Au ppm	Au(R1) ppm	Au(R2) ppm	As ppm
Detn Limit	0.01	0.01	0.01	10
379791	17.6	26.2	18.5	140
379792	7.35			300
379793	4.92			680
379794	4.19	3.96	4.02	3540
379401	0.09			90
379402	0.19			130
379403	0.12			150
379404	0.15			220
379404 Rpt	0.15			220
379405	0.24			260
379406	0.29			340
379407	0.52			490
379407 Rpt	0.52			490
379408	0.58			360
379409	0.68			330
379410	1.10	1.07	1.07	120
379411	0.69			350
379412	0.78			370
379413	0.24			430
379414	1.16			450
379414 Rpt	1.05			440
379415	4.16			970
379416	0.58			510
379417	0.44			400
379418	0.29			610
379419	0.18			370
379420	0.11			340
379421	0.10			210
379422	0.26			350
379423	0.27			360
379424	0.23			350

****

Au, Au(R1), Au(R2),
Technique - Fire Assay on a 50 gram charge

As,
Technique - AAS

END OF REPORT

MinLab

329425

MINCULTURE LABORATORIES PTY LTD ACN 008 990 174 TRUSTEE FOR THE MINLAB UNIT TRUST TRADING AS MINLAB

18A Denninup Way
MALAGA WA 6062
Tel: (09) 249 5277
Fax: (09) 249 5323

257A Forrest Street
KALGOORLIE WA 6430
Tel: (090) 21 5664
Fax: (090) 91 2200

Lot 484 Criddle St
MT MAGNET WA 6638
Tel: (099) 634 532
Fax: (099) 634 531

ANALYTICAL REPORT

Reference No: P60485

Date: 04 APR 95

AREA COVERED : MATHINNA

SAMPLE TYPE : ROCKS

Samples Received: 03 APR 95
Order Number :
Submission Sheet: K9419
Project Number : N/A
Samples in Batch: 4

THIS REPORT HAS BEEN PREPARED FOR

RESOLUTE RESOURCES LIMITED

AND SHOULD BE READ IN CONJUNCTION WITH THE FINAL PAGE

Authorised by: _____
(A.J. Ferguson)

ATTN: G McDONALD
THE RESOLUTE SAMANTHA GROUP
MANGANA RD
FINGAL TAS 7214

Reference No: P60485 ATTN: G McDONALD Page: 1

	Au ppm	As ppm
Detn Limit	0.01	10
379789	49.0	1730

MATHINNA

329427

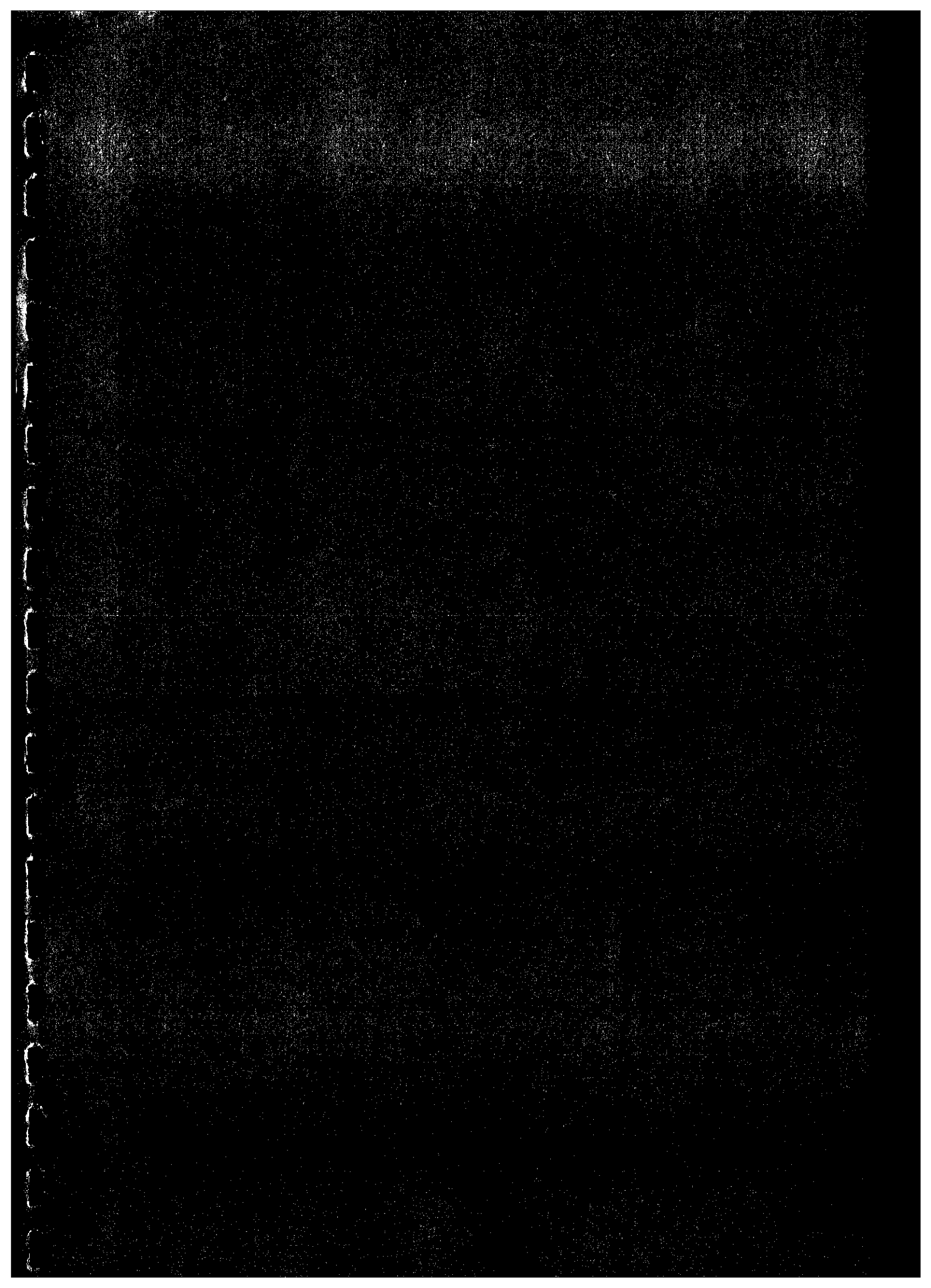
Reference No: P60485 ATTN: G McDONALD

****

Au,
Technique - Fire Assay on a 50 gram charge

As,
Technique - AAS

END OF REPORT



APPENDIX G

Interpretations of Aeromagnetic Data
- J Ashley

Resolute/Samantha Group

Northeast Tasmania

'Mathinna Project'

Interpretation of Aeromagnetic Data

J.Ashley March 1995

TABLE OF CONTENTS

ILLUSTRATIONS

SUMMARY

Aeromagnetic data over and adjacent to the tenements in the Mathinna area have been interpreted to assist in exploration for gold mineralisation.

In the Tower Hill/Mathinna/Dans Rivulet zone eight target areas, based on dilation zones related to secondary fault structures, are outlined. A general zone of interest is outlined over a proposed 'structural repeat' of the Mathinna setting.

In the Mangana area general zones of interest are outlined adjacent to interpreted major fault structures. One specific target zone is outlined over a dilation zone.

A zone of interest is outlined 4km west of Mathinna over an inferred folded sequence overlying granitoid.

1.INTRODUCTION

An interpretation of aeromagnetic data over and adjacent to EL's 17 - 18/91, 22/92 and 26 - 28/94 has been made to assist in exploration for gold mineralisation.

The aeromagnetic data are from the Netgold Database of northeast Tasmania. Within the study area the data are from three surveys (Figure 1):

Fingal 1993 (Geoinstruments)
- 200m spaced east-west flight lines
- 400m spaced north-south tie lines
- mean terrain clearance 74m (range 24-319m)

Mathinna 1990 (Geoinstruments)
- 150m spaced north-south flight lines
- 400m east-west tie lines
- mean terrain clearance 95m (range 55-207m)

Alberton Manganna 1989 (Austirex)
- 500m spaced east-west flight lines
- 5000m spaced north-south tie lines
- mean terrain clearance 244m (range 38-858m)

These data have been merged, gridded and contour maps at scale 1:50000 have been produced (Figures 3A,B). The data have also been image processed with results being presented on 35mm slides; hardcopy of one image was produced at scale 1:50000.

Geological data made available were the following:

1:250000 Geology map of northeast Tasmania

1:50000 Geology maps for Ringarooma, Alberton, St Helens, Ben Lomond, St Marys, Snow Hill

1:25000 Maps of the Mangana, Mathinna-Tower Hill and Dans Rivulet Goldfields

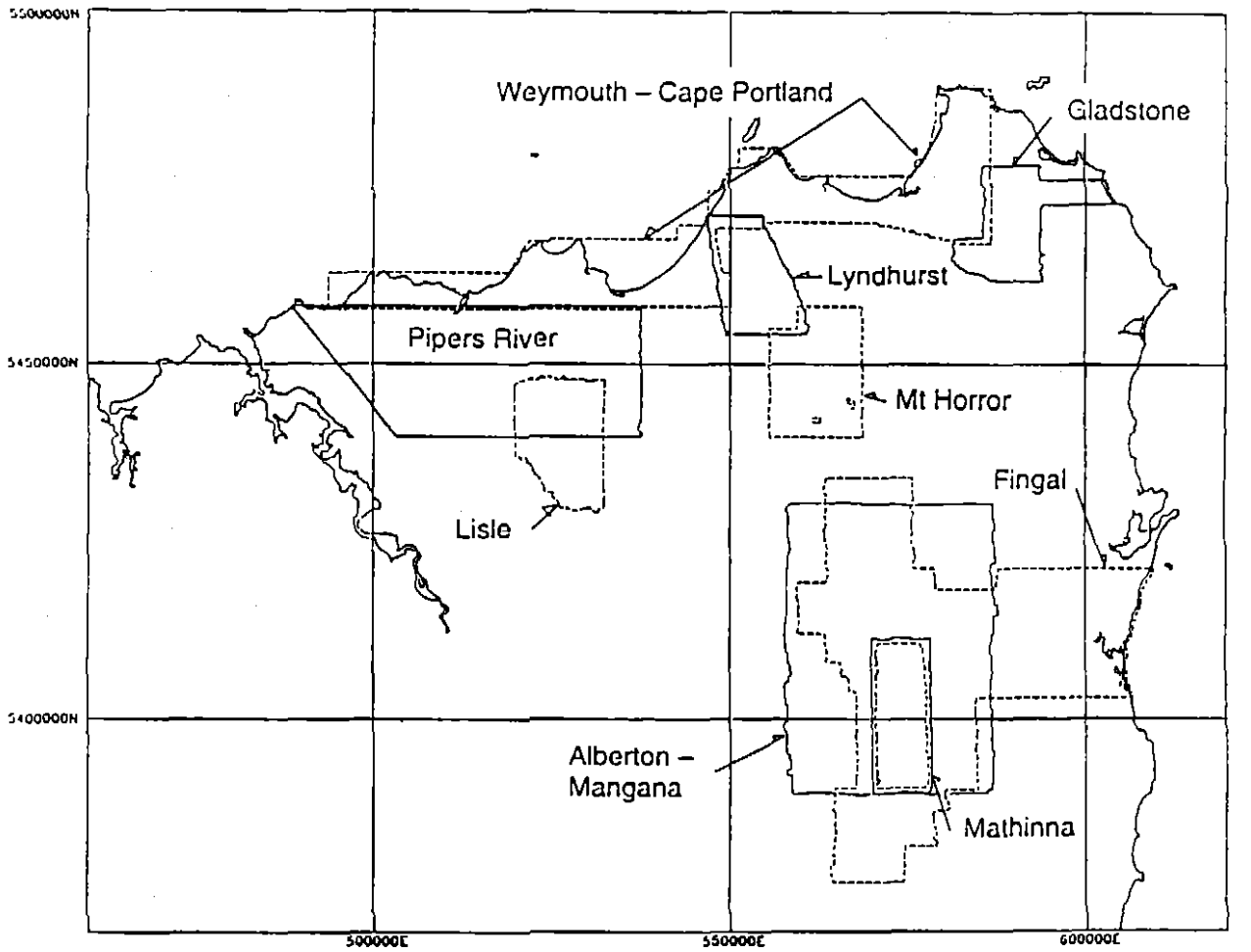

5500000N
5450000N
5400000N
500000E
550000E
600000E
Weymouth – Cape Portland
Gladstone
Lyndhurst
Pipers River
Mt Horror
Fingal
Lisle
Alberton –
Mangana
Mathinna

Figure 1

Mineral Resources Tasmania Reports:

1994/06 Structure and veining in the Devonian aged Mathinna-Alberton Gold Lineament, northeast Tasmania - R.A.Keele

1992/10 Northeast Goldfields: A summary of the Tower Hill, Mathinna and Dans Rivulet Goldfields - J.Tahieri

1994/05 A study of the nature and origin of gold mineralisation, Mangana-Forrester area, northeast Tasmania - J.Tahieri, R.S.Bottrill

1992/29 The Mangana Goldfield and adjacent gold mining areas - R.S.Bottrill

1994/08 An interpretation of recent geophysical surveys, northeastern Tasmania - R.G.Richardson, M.J.Roach

Sundry reports:

Aeromagnetic survey EL 55/83 Mangana - Acquisition Report.....Dr.DE.Leaman, 1990

Gold Exploration and the use of magnetic methods in northeast Tasmania - Dr D.E.Leaman 1992

Regional geophysics of the Alberton-Mangana goldfield, northeast Tasmania - M.J.Roach 1992

An interpretation of the aeromagnetic data is presented at scale 1:50000 in Figures 2A,B.

2. DISCUSSION

The magnetic characteristics of most of the rocks within the study area have been documented by Roach (1992) and Richardson and Roach (1994). The data in the table below are taken from Roach:

	Magnetic Susceptibility Range	($x10^{-3}$ SI) Mean
Tertiary Basalt	variable	>10
Jurassic Dolerite	variable	10
Permian Sediments	0 - 0.02	~0
Blue Tier Granite	0.02 - 0.15	0.05
Scottsdale Granite	0.02 - 0.20	0.12
Pyengana Granodiorite	3.0 - 10.0	8.0
	0.15 - 0.3	0.22
Mathinna Metasediments	0.06 - 0.32	0.15

(The distribution of the magnetic rocks is best seen in the slide of the coloured, linear, total magnetic intensity).

The highest magnetic relief in the area is produced by sills of Jurassic and Tertiary volcanics; these rocks also occur as talus deposits and in drainage channels where they produce variable, erratic, magnetic relief. The magnetic phase of the Pyengana granodiorite produces a prominent magnetic response. Sediments adjacent to the Blue Tier granite (adamellite) are 'magnetic' as a result of (inferred) contact metamorphism (seen on the St Helens map sheet). Northeast trending dykes (Devonian?) are evident on the St Helens and St Marys map sheets; one southeast trending Jurassic dyke is located just to the west of the Tower Hill gold mining centre. The Mathinna Beds contain some magnetic lithologies which exhibit magnetic relief up to about 40nT (eg adjacent to the Scottsdale batholith). Some of the relief is very low and on the interpreted plans these anomalies are shown as 'trend lines'. The latter are probably very difficult to identify in the field; the former should be recognisable.

There are several low-amplitude 'broad' magnetic anomalies over the sediments (most clearly seen in the slide of the non-linear total magnetic intensity). These have been attributed (Roach 1992) to sub-surface granodiorites similar to the magnetic phase of the Pyengana granodiorite. This is considered to be a valid interpretation; an alterative source could be metamorphosed sediments overlying non-magnetic granitoids. The strongest of these 'deep' anomalies (~80nT) is in the extreme southwest. The source is interpreted to be at depth of 1 - 2km; sediments overlying this, and other 'deep' features, are inferred to be 'grossly' anticlinally folded ie along axes f_1 - f_7. Smaller scale fold structures are evident in the

sediments adjacent to the Blue Tier batholith; a northwest fold axis (f8) is interpreted west of Mathinna where arcuate, weak, magnetic trends are observed.

Several 'major' and many minor (secondary) fault structures are interpreted. 'Major' structures trend north-northwest and northeast (the confidence in the interpretation is indicated by the 'length' of the fault symbol on the maps). The northeast dextral fault (F1) through the Pyengana granodiorite is an obvious feature where it transects the pluton but is not obvious to the southwest. A northeast fault (F2) is interpreted along a 'magnetic contact' adjacent to the South Esk river and is inferred to contain dyke rocks to the northeast (on the St Helens map sheet). Displacement on this fault may be sinistral.

North-northwest faults are mostly interpreted in the west of the area. The fault F3 is based largely on a contact displacement of the 'deep' granitoid south of the Scottsdale batholith - it is not a well defined feature.

The zone bounded by faults F4/F10 contains the bulk of the linear magnetic lithologies in the Mathinna Beds. These faults are rarely well defined and are largely positioned to outline 'packages' of rocks of similar character or, in some places, they are positioned between zones of differing 'magnetic' trends eg parts of F6, F7. The zone bounded by F6 and F9/F10 contains distinctive ovoid magnetic 'lows' (axes L1 - L3).

To the east a north-northwest fault (F11) is inferred along the margin of a tongue of 'non-magnetic' granite. The parallel fault F12 is inferred along a 'magnetic contact'.

From the imaged data additional 'major' faults or deformation zones can be inferred. These are 'weak' features and hence may relate to the earliest stages of deformation.

Such features trend east-southeast (Z1, Z2), east-northeast (Z3, Z4), north-south (Z5) and northeast (Z6, Z7).

Numerous minor or secondary fault structures are interpreted from offsets of magnetic lithologies or from trends seen in the imaged data.

3. TARGET AREAS

Some general observations relating to the distribution of gold mineralisation can be made based on this interpretation of the aeromagnetic data.

The Mathinna, Dans Rivulet and Alberton Goldfields are within a north-northwest structural zone defined here by faults F6 and F9/F10. The gold mines/prospects are grossly aligned at ~345° ie obliquely to the trend of the interpreted structural zone. The Tower Hill goldfield is on the west margin of this zone.

The Mangana Goldfield is interpreted to be within a separate, parallel, structural zone defined here by faults F4 and F5.

Within the Mathinna/Alberton zone the Mathinna mineralisation is located over the northern end of an ovoid magnetic 'low' (axis L1). This 'low' is bounded to the north by an east-southeast magnetic 'high' (the Z2 zone) which is flanked to the north by an east-southeast magnetic 'low' (axis L2). The Alberton mineralisation is more or less over the axis of a near north trending magnetic 'low' (axis L4). The sources of these magnetic 'lows' are not clear but they may represent alteration zones within or beneath the Mathinna Beds.

The Mangana Goldfield and Alberton Goldfield are over inferred 'deep' granodiorites. Similar rocks are inferred beneath the f_2 axis west of Mathinna. This axis more or less coincides with favourable stratigraphy outlined by Keele. This stratigraphic unit was interpreted (Keele) to be the Mathinna unit sinistrally offset by a northeast transfer fault - the latter is not evident in the magnetic data.

In detail, at Mathinna, there is some evidence for a dextral north-northwest fault (F13), along strike, to the south-southeast of the Golden Gate deposit. This is inferred to extend to the north into the Dans Rivulet Goldfield where it merges with F9. Assuming that north-northeast secondary structures are dilational (Reidel faults) then target zones T1 - T3 can be defined where such structures intersect F13/F9. A dextral north-northeast fault is interpreted 1km to the northwest of Golden Gate; a target zone (T4) is outlined along the presumed extension of this fault beneath the alluvium.

A similar fault is well defined in the Tower Hill area thus defining target zone T5. To the south-southeast similar targets (T6 - T8) are outlined.

In the Mangana area specific targets are not defined since specific dilation zones have not been recognised. The vein direction here is dominantly north-northwest and a general zone of interest extends to the north and south adjacent to fault F5. A similar general zone of interest is adjacent to fault F4; a specific target (T9) is outlined where a dextral secondary fault is interpreted.

A structural setting, somewhat similar to that in the Brilliant area, occurs within the tenements over, or adjacent to, the f_8 fold axis west of Mathinna. The f_8/Z3 intersection is suggested as a more specific zone of interest.

If the ovoid magnetic 'low' (axis L1) is a component in the mineralising process then the southern end of the 'low' is considered to be a 'look alike' setting of the Mathinna area. Hence a general zone of interest T10 is postulated.

ENHANCED AEROMAGNETIC IMAGES (SLIDES)

LODGED WITH MINERAL RESOURCES TASMANIA

All images consist of three scenes on separate slides

Intensity Linear Stretch - monochrome

Intensity Linear Stretch - colour

Intensity Non Linear Stretch - monochrome

Intensity Non Linear Stretch - colour

AGC on North Gradient - monochrome

AGC on North East Gradient - monochrome

AGC on East Gradient - monochrome

AGC on South East Gradient - monochrome

North Gradient - monochrome

North East Gradient - monochrome

East Gradient - monochrome

South East Gradient - monochrome

AGC on 2D - monochrome

AGC on FVD - monochrome

First Derivative (LIN) - monochrome

Second Derivative - monochrome

Gradients Blue North East, Green East, Red South East - colour

Blue North East AGC, Green East AGC, Red South East AGC - colour

Intensity (NL) Shaded With 50% North Gradient - colour

Intensity (NL) Shaded With 50% North East Gradient - colour

Intensity (NL) Shaded With 50% East Gradient - colour

Intensity (NL) Shaded With 50% South East Gradient - colour

Intensity (NL) Shaded With 75% North Gradient - colour

Intensity (NL) Shaded With 75% North East Gradient - colour

Intensity (NL) Shaded With 75% East Gradient - colour

Intensity (NL) Shaded With 75% South East Gradient - colour

Intensity (NL) Shaded With 75% FVD Gradient - colour

Intensity (NL) Shaded With 75% 2D Gradient - colour

GM589:da

Alberton

Ryegrass Pluton

Blue Tier Batholith

Scottsdale Batholith

Mathinna

Tower Hill

Brilliant

Dans Rivulet

LEGEND

- 'Magnetic' granitoid
- Inferred 'magnetic' granitoid at depth
- 'Non-magnetic' granitoid
- Inferred 'non-magnetic' granitoid at depth
- Magnetic lithologies in sediments
- Very weakly magnetic units in sediments
- Inferred hornfelsed sediments
- Discrete magnetic 'highs' in sediments
- Jurassic volcanics
- Triassic volcanics
- Tertiary volcanics
- Volcanics in talus deposits
- Inferred dyke (magnetic low)
- " " (" high)
- Magnetic rocks in drainage channels/flood plains
- Axis of magnetic 'low'
- " " " 'high' (over topo. ridge)
- 'Magnetic contact' (relatively more magnetic on hatched side)
- Inferred fold axis
- " anticline axis
- Interpreted major fault/shear zones
- " minor/secondary faults
- 'Vague' faults/deformation zones (from imaged data)
- Fractures in granitoid
- Drainage channel/flood plain
- Gold mines
- Major gold mine
- Tenement boundary
- Target zones

PROCESSING DETAILS

Processing : Southern Geoscience
Supervision : J. Archer

96-3843

VOLUME 3 OF 5 ANNUAL REPORT
1995 EL 17/91 MATHINNA - RESOLUTE SAMANTHA LTD - MACDONALD. G.

N

1 000 0 1 000 2000 3000

AUSTRALIAN MAP GRID
AGD84 SPHEROID
SOUTHERN HEMISPHERE

329441

5cm

SOUTHERN GEOSCIENCE CONSULTANTS

RESOLUTE/SAMANTHA GROUP
NORTH EAST TASMANIA
AEROMAGNETIC SURVEY
INTERPRETATION PLAN
SCENE 1 OF 2 (NORTH)

SCALE 1: 50, 000	
DATE 17-03-1995	FIGURE 2A

LEGEND

- 'Magnetic' granitoid
- Inferred 'magnetic' granitoid at depth
- 'Non-magnetic' granitoid
- Inferred 'non-magnetic' granitoid at depth
- Magnetic lithologies in sediments
- Very weakly magnetic units in sediments
- Inferred hornfelsed sediments
- Discrete magnetic 'highs' in sediments
- Jurassic volcanics
- Triassic volcanics
- Tertiary volcanics
- Volcanics in talus deposits
- Inferred dyke (magnetic low)
- " " (" high)
- Magnetic rocks in drainage channels/flood plains
- Axis of magnetic 'low'
- " " " 'high' (over topo. ridge)
- 'Magnetic contact' (relatively more magnetic on hatched side)
- Inferred fold axis
- " anticline axis
- Interpreted major fault/shear zone
- " minor/secondary faults
- 'Vague' faults/deformation zones (from imaged data)
- Fractures in granitoid
- Drainage channel/flood plain
- Gold mines
- Major gold mine
- Tenement boundary
- Target zones

PROCESSING DETAILS

Processing : Southern Geoscience
Supervision : J. Ashley

96-3843

VOLUME 3 OF 5 ANNUAL REPORT
1996 EL 17/91 MATHINNA - RESOLUTE SAMANTHA LTD - MACDONALD, G.

N

1 000 0 1 000 2000 3000

AUSTRALIAN MAP GRID
AGD66 SPHEROID
SOUTHERN HEMISPHERE

5cm

SOUTHERN GEOSCIENCE CONSULTANTS

RESOLUTE/SAMANTHA GROUP
NORTH EAST TASMANIA
AEROMAGNETIC SURVEY
INTERPRETATION PLAN
SCENE 2 OF 2 (SOUTH)

SCALE 1:50,000	
DATE 17-03-1995	FIGURE 25

329442

PROCESSING DETAILS

Processing : Southern Geoscience
Supervision : J. Ashley

PLOT SPECIFICATIONS

Contours:
Lower Level : 1 nT
Middle Level : 5 nT
Upper Level : 20 nT

Grid Cell Size : 50mE x 50mN

1 000 0 1 000 2000 3000

AUSTRALIAN MAP GRID
AGD84 SPHEROID
SOUTHERN HEMISPHERE

5 cm

SOUTHERN GEOSCIENCE CONSULTANTS

RESOLUTE/SAMANTHA GROUP

NORTH EAST TASMANIA

AEROMAGNETIC SURVEY

CONTOURS OF TOTAL MAGNETIC INTENSITY

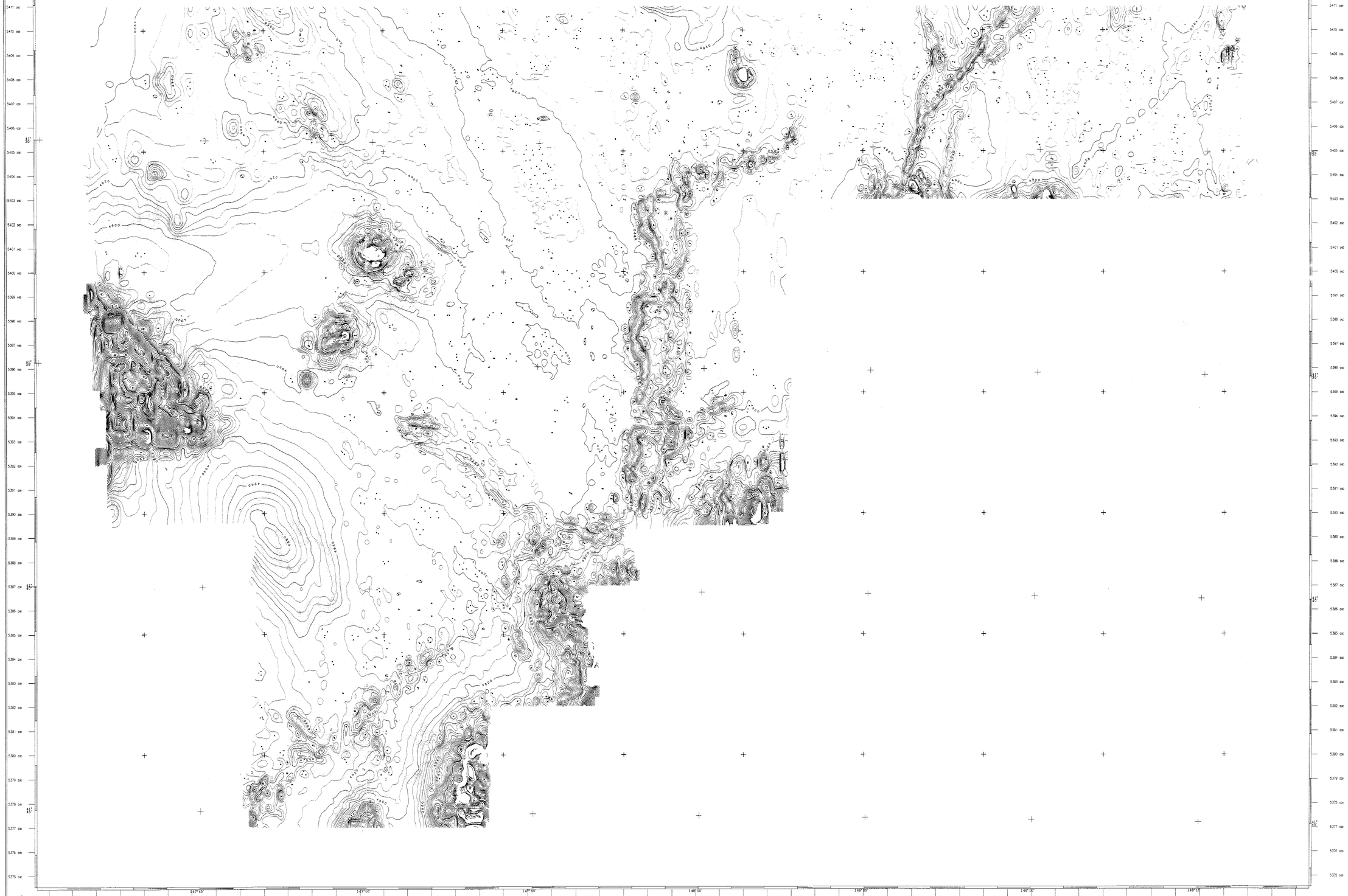
SCENE 1 OF 2 (NORTH)

SCALE 1:50,000	
DATE 17-03-1995	FIGURE 3A

329443

96-3843

VOLUME 3 OF 5 ANNUAL REPORT
1995 EL 17/91 MATHINNA - RESOLUTE



PROCESSING DETAILS

Processing : Southern Geoscience
Supervision : J. Ashley

PLOT SPECIFICATIONS

Contours:
Lower Level : 1 nT
Middle Level : 5 nT
Upper Level : 20 nT

Grid Cell Size : 50mE x 50mN

96-3843

VOLUME 3 OF 5 ANNUAL REPORT
1996 EL 17/91 MATHINNA - RESOLUTE
SAMANTHA LTD - MACDONALD, G.

329444

N

1 000 0 1 000 2000 3000

AUSTRALIAN MAP GRID
AGD84 SPHEROID
SOUTHERN HEMISPHERE

5 cm

SOUTHERN GEOSCIENCE CONSULTANTS

RESOLUTE/SAMANTHA GROUP

NORTH EAST TASMANIA

AEROMAGNETIC SURVEY

CONTOURS OF TOTAL MAGNETIC INTENSITY

SCENE 2 OF 2 (SOUTH)

SCALE 1:50,000	
DATE 07-03-1995	FIGURE 36

APPENDIX H

Channel Sample Record Sheets and Assay Results

329446

RESOLUTE RESOURCES LIMITED

Project Name: MATHINNA / MANGANA Prospect Name: TELEGRAPH / HORSESHOE Tenement No.: 17/91

Sampler: GRANT. Sample Type: CHANNEL Sample Submission No.: K9415

Note: New Area - New Page & New Sample Type - New Page Date: / /

Samp					
379771					
2					
3					
4					
5					
6					
9			CHANNEL — Horseshoe		
373780			" "		
1			" "		
2			" "		
3			" "		
4			" Telegraph/Horseshoe	o/c	
5			" "		
6					

3797

3796

329447

MinLab

MINCULTURE LABORATORIES PTY LTD ACN 008 960 174 TRUSTEE FOR THE MINLAB UNIT TRUST TRADING AS MINLAB

18A Denninup Way
MALAGA WA 6062
Tel: (09) 249 5277
Fax: (09) 249 5323

257A Forrest Street
KALGOORLIE WA 6430
Tel: (090) 21 5664
Fax: (090) 91 2200

Lot 484 Criddle St
MT MAGNET WA 6638
Tel: (099) 634 532
Fax: (099) 634 531

ANALYTICAL REPORT

Reference No: P60068

Date: 06 FEB 95

AREA COVERED: NORTHAMPTON WEST MIGHTY N'HAMPTON

SAMPLE TYPE: ROCKS (CHANNEL SAMPLES)

Samples Received: 30 JAN 95
Order Number : K9415B
Project Number : N/A
Samples in Batch: 87

THIS REPORT HAS BEEN PREPARED FOR

RESOLUTE RESOURCES LIMITED

AND SHOULD BE READ IN CONJUNCTION WITH THE FINAL PAGE

Authorised by: A Ferguson
(A.J. Ferguson)

ATTN: G McDONALD
RESOLUTE RESOURCES LIMITED
MANGANA RD
FINGAL TAS 7214

Reference No: P60068 **ATTN: G McDONALD** Page: 2

	Au ppm	Au(R1) ppm	Au(R2) ppm	As ppm
Detn Limit	0.01	0.01	0.01	10
379779	0.16			80
379779 Rpt	0.21			80
379780	0.06			150
379780 Rpt	0.04			160
379781	0.05			130
379782	0.63			100
379783	1.31	0.79	0.75	100
379784	0.09			<10
379785	0.02			<10
379786	0.03			<10
379786 Rpt	0.02			<10

HORSESHOE U/GROUND CHANNELS MATHINNA

HORSESHOE O/C CHANNELS.

****

% Implies this result reported in %

Au, Au(R1), Au(R2),
Technique - Fire Assay on a 50 gram charge

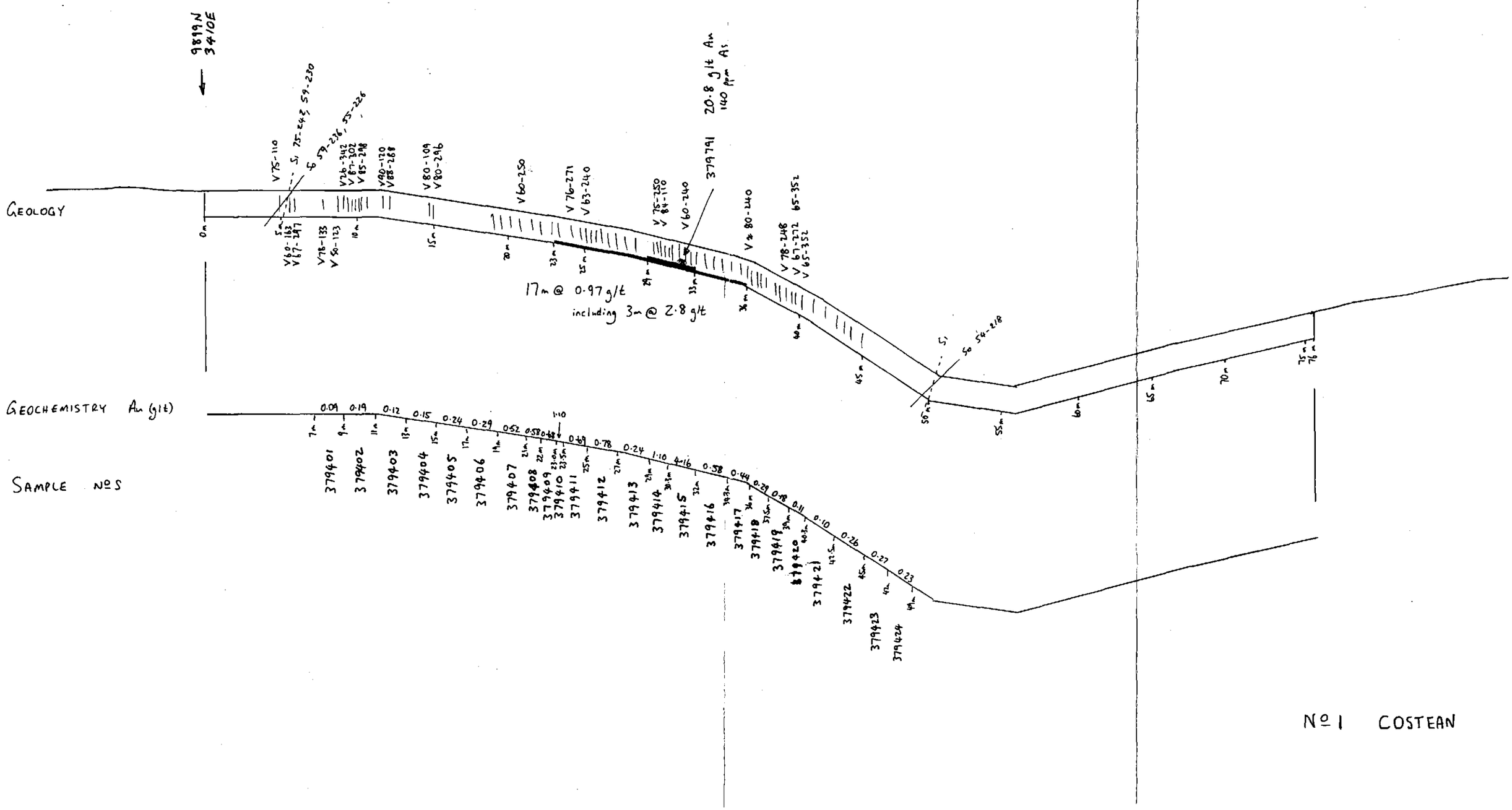
As,
Technique - AAS

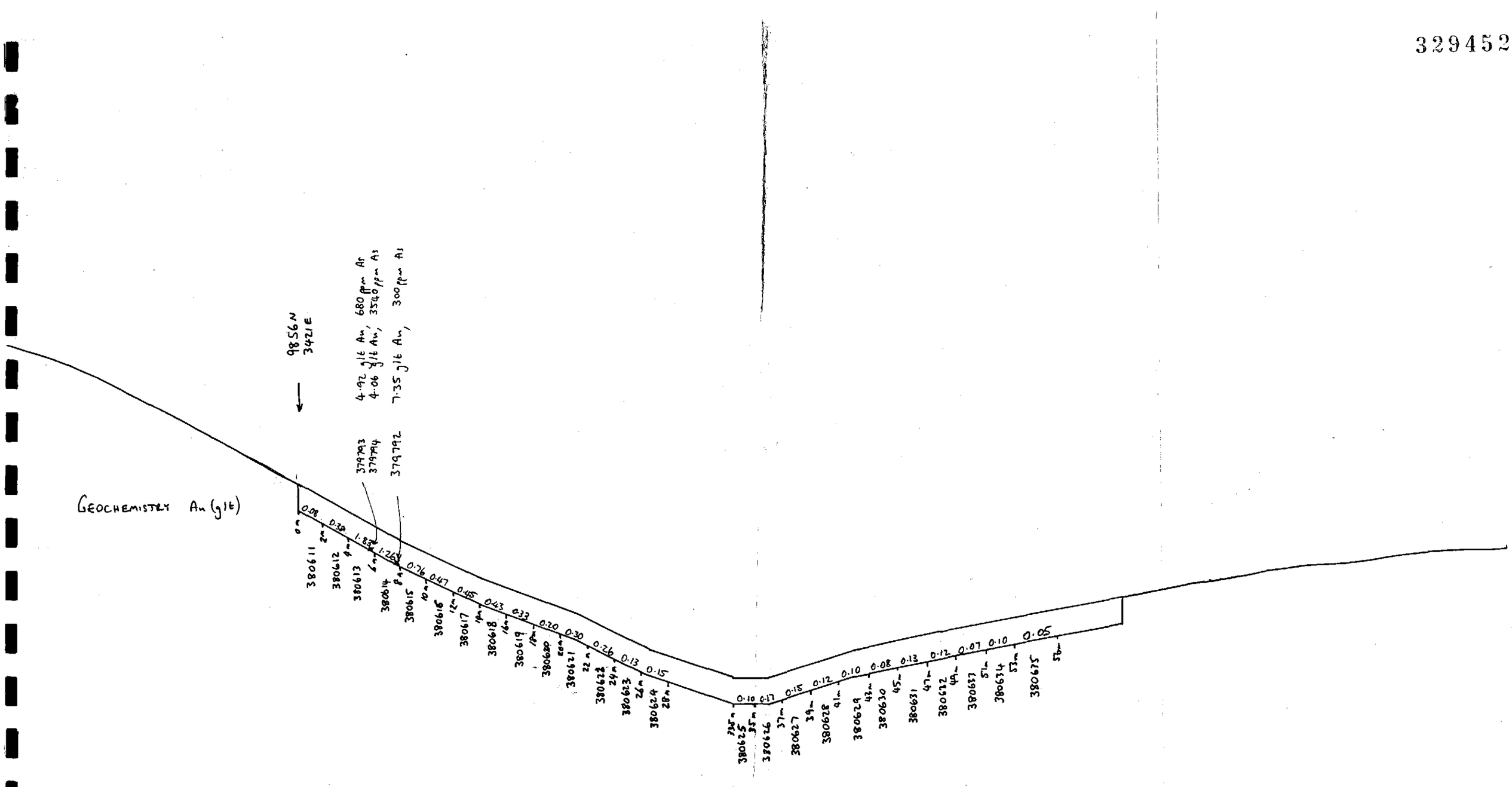
END OF REPORT

APPENDIX I

Costean Sample Locations, Record Sheets and Assay Results

329451


9819N
3410E
GEOLOGY
V75-110
S, 75-245, 59-230
G 59-236, 55-226
V26-342
V67-302
V65-248
V40-120
V88-268
V80-109
V80-246
V60-250
V76-271
V63-240
V75-250
V84-110
V60-240
379791
20.8 g/t Au
140 ppm As
V80-140
V78-248
V61-272
V65-352
17m @ 0.97 g/t
including 3m @ 2.8 g/t
S, S 54-218
GEOCHEMISTRY Au (g/t)
SAMPLE Nos
379401
379402
379403
379404
379405
379406
379407
379408
379409
379410
379411
379412
379413
379414
379415
379416
379417
379418
379419
379420
379421
379422
379423
379424
NO 1 COSTEAN


GEOCHEMISTRY Au (g/t)
9856N
3421E
379793 4·92 g/t Au, 680 ppm As
379794 4·06 g/t Au, 3540 ppm As
379792 7·35 g/t Au, 300 ppm As
0m 0·08 2m 0·39 4m 1·83 1·26 6m 0·76 8m 0·47 10m 0·45 12m 0·43 14m 0·33 16m 0·20 18m 0·30 20m 0·26 22m 0·13 24m 0·15 26m 0·10 28m 0·17 30m 0·15 32m 0·12 34m 0·10 36m 0·08 38m 0·13 40m 0·12 42m 0·07 44m 0·10 46m 0·05 48m
380611 380612 380613 380614 380615 380616 380617 380618 380619 380620 380621 380622 380623 380624 380625 380626 380627 380628 380629 380630 380631 380632 380633 380634 380635

№2 COSTEAN

MinLab

329453

MINCULTURE LABORATORIES PTY LTD ACN 008 960 174 TRUSTEE FOR THE MINLAB UNIT TRUST TRADING AS MINLAB

18A Denninup Way
MALAGA WA 6062
Tel: (09) 249 5277
Fax: (09) 249 5323

257A Forrest Street
KALGOORLIE WA 6430
Tel: (090) 21 5664
Fax: (090) 91 2200

Lot 484 Criddle St
MT MAGNET WA 6638
Tel: (099) 634 532
Fax: (099) 634 531

ANALYTICAL REPORT

Reference No: P60653

Date: 30 APR 95

Samples Received: 26 APR 95
Order Number : K9420A
Project Number : N/A
Samples in Batch: 28

THIS REPORT HAS BEEN PREPARED FOR

RESOLUTE RESOURCES LIMITED

AND SHOULD BE READ IN CONJUNCTION WITH THE FINAL PAGE

Authorised by: _____
(A.J. Ferguson)

ATTN: G McDONALD
RESOLUTE RESOURCES LIMITED
MANGANA RD
FINGAL TAS 7214

329454

Reference No: P60653 ATTN: G McDONALD Page: 1

	Au ppm	Au(R1) ppm	Au(R2) ppm	As ppm	
Detn Limit	0.01	0.01	0.01	10	
379791	17.6	26.2	18.5	140	CHINAMEN'S HILL NORTH COSTEAN ROCK CHIPS.
379792	7.35			300	
379793	4.92			680	
379794	4.19	3.96	4.02	3540	
379401	0.09			90	↑
379402	0.19			130	
379403	0.12			150	
379404	0.15			220	
379404 Rpt	0.15			220	
379405	0.24			260	
379406	0.29			340	
379407	0.52			490	
379407 Rpt	0.52			490	
379408	0.58			360	
379409	0.68			330	CHINAMEN'S HILL NORTH COSTEAN CHANNELS
379410	1.10	1.07	1.07	120	
379411	0.69			350	
379412	0.78			370	
379413	0.24			430	
379414	1.16			450	
379414 Rpt	1.05			440	
379415	4.16			970	
379416	0.58			510	
379417	0.44			400	
379418	0.29			610	
379419	0.18			370	
379420	0.11			340	
379421	0.10			210	
379422	0.26			350	
379423	0.27			360	↓
379424	0.23			350	

****

Au, Au(R1), Au(R2),
Technique - Fire Assay on a 50 gram charge

As,
Technique - AAS

END OF REPORT

329456

MinLab

MINCULTURE LABORATORIES PTY LTD ACN 008 980 174 TRUSTEE FOR THE MINLAB UNIT TRUST TRADING AS MINLAB

18A Denninup Way
MALAGA WA 6062
Tel: (09) 249 5277
Fax: (09) 249 5323

257A Forrest Street
KALGOORLIE WA 6430
Tel: (090) 21 5664
Fax: (090) 91 2200

Lot 484 Criddle St
MT MAGNET WA 6638
Tel: (099) 634 532
Fax: (099) 634 531

ANALYTICAL REPORT

Reference No: P60964

Date: 30 MAY 95

Samples Received: 25 MAY 95
Order Number : K9421B
Project Number : TAS
Samples in Batch: 69

AREA COVERED : MINTHARA / CHALLENGER AREA

SAMPLE TYPE : AUGERED SUB-SURFACE SOIL, ROCK/CHIPS - CHANNEL SAMPLES

THIS REPORT HAS BEEN PREPARED FOR

THE RESOLUTE SAMANTHA GROUP

AND SHOULD BE READ IN CONJUNCTION WITH THE FINAL PAGE

Authorised by: A.J. Ferguson
(A.J. Ferguson)

ATTN: G McDONALD
THE RESOLUTE SAMANTHA GROUP
MANGANA RD
FINGAL TAS 7214

Reference No: P60964 ATTN: G McDONALD

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm	
Detn Limit	1	1	1	10	
379444	5	6		20	
379444 Rpt	15			<10	
379445	6			10	
379446	7			<10	
379447	13			<10	
379448	15			20	
379449	7			40	
379450	8			20	
379451	19			40	
379452	17			90	
379453	36	37	38	60	
379454	55			150	
379455	9			40	
379456	5			20	
379457	6			10	
379458	7			20	
379459	10			20	
379460	6			<10	
379460 Rpt	5			<10	MATHINNA
379461	6			10	
379462	305	388	288	<10	SOIL
379463	75			240	
379464	22			40	
379465	12			40	
379466	14			<10	
379467	5			10	
379468	8			70	
379469	9			<10	
379470	12			30	
379471	11			<10	
379472	8			<10	
379473	1.22M	773	860	700	
379474	49			10	
379475	6			<10	
379476	6			<10	
379477	6			<10	
379477 Rpt	7			<10	
379478	10			<10	
379479	7			<10	
379479 Rpt	9			<10	
379480	17	10	20	150	
379481	7			<10	
379482	7			<10	
379483	10			20	
379484	18			<10	
379485	9			<10	
379486	4			<10	
379486 Rpt	4			10	
379487	2			<10	
380611	82			40	
380612	382			340	CHINAMENS HILL
380613	1.82M	1.90M	1.79M	940	SOUTH COSTEAN CHANNELS

Reference No: P60964 ATTN: G McDONALD

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
380614	1.26M			1390
380615	764			580
380616	471			350
380617	449			430
380618	433			250
380619	285			310
380619 Rpt	378			280
380620	203			210
380621	299			230
380622	191	297	296	250
380623	131			230
380624	116			250
380625	101			190
380626	172			140
380627	152			180
380628	117			380
380629	97			230
380630	80			240
380631	128			190
380632	121			150
380633	60			150
380633 Rpt	76			130
380634	100			120
380635	43	49	53	40

CHINAMENS HILL
SOUTH COSTEAN
CHANNELS.

****

M Implies this result reported in ppm

Au, Au(R1), Au(R2),
Technique - Fire Assay on a 50 gram charge followed by solvent extraction

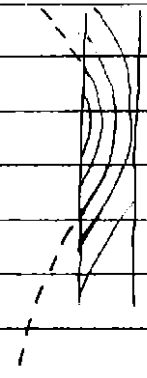
As,
Technique - AAS

END OF REPORT

APPENDIX J

Diamond Drill (GG 1, GG 2 and GG 3) Relogs, Sample Record Sheets and Assay Results

RESOLUTE RESOURCES LIMITED Hole No. GG1 Sheet 1 of 3

INTERVAL FROM	INTERVAL TO	INCLUDING FROM	INCLUDING TO	DESCRIPTION	ASSAYS – MINES DEPARTMENT OR RESOLUTE From	To	Au(g/t)	Ag(g/t)	As(ppm)
7'0"	62'7"			LIGHT GREENISH GREY TO GREENISH GREY SILTSTONE/ SHALE					
				At 25' bg @ 50° ca					
				39' bg @ 10° ca					
				48'4" bg @ 13° ca					
				42' clv @ 10° ca					
				Ferruginous q vn' from 49'0" – 49'8", 57' – 58' & 60'10" – 61'8"					
62'7"	160'0"			DARK GREENISH - GREY SILTSTONE/SHALE					
				Cct q vn' from 62'7" – 62'10" 69'5" – 70'4", 81'6" – 83'3", 97'3" – 97'5", 114' – 114'2".					
				From 115' – 123' the rock is s.id slt/sh					
				At 97' clv @ 45° ca					
				101' clv @ 42° ca					
				Core shows folding from 137' – 147' ie					
									
				At 157' bg @ 47° ca					

329469

ESOLUTE RESOURCES LIMITED — Hole No. GG1 — Sheet 2 of 3

INTERVAL FROM	INTERVAL TO	INCLUDING FROM	INCLUDING TO	DESCRIPTION	ASSAYS - MINES DEPARTMENT OR RESOLUTE. FROM	TO	Au(g/t)	Ag(g/t)	As(ppm)
160'0"	173'0"			DARK GREY SILTSTONE / SHALE					
				Mn cct milky q vng post clv but no sd'					
				At 165' clv @ 65° ca					
173'0"	183'0"			DARK GREENISH GREY SILTSTONE / SHALE					
183'0"	194'5"			DARK GREY SILTSTONE / SHALE					
				In broken core in broken tray. mn q vng is post clv					
194'5"	296'0"			GREENISH GREY SILTSTONE / SHALE					
				5% - 10% q vng t/o. Very similar to q vng					
				in sericitised shale seen on mullock heaps and					
				in GG2 however the alteration appears to be					
				more chloritic. Some mn py on frac surfaces					
				in q, possibly tc asp.					
296'0"	367'0"			GREENISH GREY SILTSTONE / SHALE					
				With ≈ 20% q as vng t/o					
367'0"	417'0"			DARK GREENISH GREY SILTSTONE / SHALE					
417'0"	417'2"			PUGGY FAULT.					23963
417'2"	434'0"			DARK GREENISH GREY SILTSTONE / SHALE					23964

RESOLUTE RESOURCES LIMITED Hole No. GG1 Sheet 3 of 3

INTERVAL FROM	INTERVAL TO	INCLUDING FROM	INCLUDING TO	DESCRIPTION	ASSAYS – MINES DEPARTMENT OR RESOLUTE. From	To	Au(g/t)	Ag(g/t)	As(ppm)
434'0"	436'9"			PUGGY FAULT / REEF	430'8"	436'9"	0.002		<10
				Puggy fault at 40° ca w 30% g included and s/h of adjacent wallrocks					
436'9"	460'0"			DARK GREENISH GREY SILTSTONE/SHALE					
460'0"	468'0"			PUGGY FAULT / REEF CHANNEL					
				vd gy carbonaceous puggy fault at 40°-45° ca but with no quartz. appears to be a major reef channel or fault					
468'0"	499'5"			GREYISH BLACK SILTSTONE/SHALE	460'	465'2"	0.015		30
				At 470' bg @ 50° ca					
				At ≈ 478' is mn 'spotting'					
				From 479'4" – 480'8" is g vng					

3294633

ESOLUTE RESOURCES LIMITED Hole No. GG2 Sheet 1 of 7

INTERVAL FROM	INTERVAL TO	INCLUDING FROM	INCLUDING TO	DESCRIPTION	ASSAYS - MINES DEPARTMENT OR RESOLUTE From	To	Au(g/t)	Ag(g/t)	As(ppm)
8'6"	46'8"			MEDIUM DARK GREY SILTSTONE / SHALE					
				Fine iron oxide fractures define cleavage at 23° ca @					
				10'. Two bleached zones ≈ 16'-36' as selvedges to					
				q vng.					
46'8"	65'0"			DARK GREY SILTSTONE / SHALE	60'9"	65'0"	0.002		10
				Very distinctive rock with numerous parallel q ± cv'					
				giving the appearance of a Collingwood jumper. in parts.					
				Vn' are ≈ 10mm thick, make up ≈ 30% of					
				the rock. They are deformed being folded v					
				tightly with steep fold axial planes ie sub vertical					
				with roughly north-south striking hinge lines.					
				Similar veins are seen in the "Golden Hinges" adit.					
				Vn' are 70% q, 30% c.					
65'0"	125'0"			DARK GREY SILTSTONE / SHALE					
				Has gradational lower contact lightening in colour					
				over the last few feet					
				At 80' clv @ 27° ca					
				118' clv @ 20° ca					
				Negligible vng					
125'0"	198'0"			GREENISH GREY SILTSTONE / SHALE					
				At 142' clv @ 30° ca					
				171' clv @ 28° ca					

3 2 9 4 6 7

ESOLUTE RESOURCES LIMITED Hole No. GG2 Sheet 2 of 7

INTERVAL FROM	INTERVAL TO	INCLUDING FROM	INCLUDING TO	DESCRIPTION	ASSAYS - MINES DEPARTMENT OR RESOLUTE. From	To	Au(g/t)	Ag(g/t)	As(ppm)
				deformed q c vn z @ 151'6" is almost mylonitic					
				At 195' clv is @ 31° ca					
198'0"	214'0"			QUARTZ FORMATION	198'	214'	0.001		<10
(interval approximate due to damaged core tray)				Milky white q 70% in sericitic, chloritic finely laminated (bedding?) wall rock. No sulphides.					
214'0"	263'0"			GREENISH GREY SILTSTONE/SHALE					
				At 225' clv @ 27° ca					
				243' clv @ 28° ca					
263'0"	275'0"			MEDIUM GREY SILTSTONE / SHALE					
				At 268' clv @ 27° ca.					
275'0"	342'3"			GREENISH GREY SILTSTONE/ SHALE					
				At 285' clv @ 27° ca					
				312' clv @ 38° ca					
				336' clv @ 36° ca					
				From 301'9" – 302' is milky white q c vn sub-parallel to the clv. From 309' – 312' is z with diffuse white q vn' to 10mm thick generally sub ∥ parallel to the clv but also my folded in part. From 337'5" – 337'6" is q c cl vn.					

RESOLUTE RESOURCES LIMITED Hole No. GC2 Sheet 3 of 7

INTERVAL FROM	INTERVAL TO	INCLUDING FROM	INCLUDING TO	DESCRIPTION	ASSAYS – MINES DEPARTMENT OR RESOLUTE. From	To	Au(g/t)	Ag(g/t)	As(ppm)
342'3"	407'2"			GREENISH GREY SILTSTONE/SHALE – QUARTZ FORMATION. Numerous zones of q 'formations' – milky white quartz with sericitic wallrock selvedges with v fine laminations (bedding?) – look v interesting.					
		342'3"	349'6"	75% q aa, 25% grish gy slt/sh. clv @ 30°-33° ca.	342'3"	349'6"	0.002		< 10
		349'6"	356'8"	grish gy slt/sh. clv @ 40° ca.					
		356'8"	357'8"	60% q aa, 40% grish gy slt/sh					
		357'8"	360'0"	grish gy slt/sh. clv @ 40° ca					
		360'0"	360'5"	q vn aa. lower contact of vn is @ 25°-40° ca.					
		360'5"	367'6"	grish gy slt/sh w narrow q vn @ 364'10"					
		367'6"	370'2"	80% q aa, 20% grish gy slt/sh	367'6"	370'2"	0.002		20
		370'2"	373'0"	grish gy slt/sh clv @ 42° ca					23
		373'0"	373'6"	50% q aa, 50% grish gy slt/sh					469
		373'6"	375'8"	grish gy slt/sh					

RESOLUTE RESOURCES LIMITED Hole No. GG2 Sheet 4 of 7

INTERVAL FROM	INTERVAL TO	INCLUDING FROM	INCLUDING TO	DESCRIPTION	ASSAYS – MINES DEPARTMENT OR RESOLUTE. From	To	Au(g/t)	Ag(g/t)	As(ppm)
		375'8"	377'10"	70% q aa, 30% grish gy slt/sh					
		377'10"	386'4"	grish gy slt/sh, clv @ 37° ca					
		386'4"	401'2"	40% q as narrow vn' t/o, 60% grish gy slt/sh	395'6"	401'2"	0.003		20
		401'2"	406'0"	grish gy slt/sh					
		406'0"	407'2"	80% q aa, 20% grish gy slt/sh					
407'2"	418'0"			GREENISH GREY SILTSTONE / SHALE.					
				Clv @ 35° ca. gradational lower contact.					
418'0"	474'8"			DARK GREY SILTSTONE / SHALE					
				At 440' clv @ 38° ca					
				454' clv @ 38° ca					
				465' clv @ 60° ca] KINK					
				470' clv @ 15° ca]					
474'8"	484'8"			PUGGY SHEAR ZONE	474'8"	484'8"	0.047		70
				Grish gy slt/sh, sheared + puggy @ 45°-60° ca.					
				5% q is deformed					
484'8"	515'7"			MEDIUM DARK GREY AND GREENISH GREY SILTSTONE					
				Possibly mm sin of slt in part. 50% med d gy and					

329469

RESOLUTE RESOURCES LIMITED — Hole No. GG2 — Sheet 5 of 7

INTERVAL FROM	INTERVAL TO	INCLUDING FROM	INCLUDING TO	DESCRIPTION	ASSAYS – MINES DEPARTMENT OR RESOLUTE FROM	TO	Au(g/t)	Ag(g/t)	As(ppm)
				50% grish gy slt. Possible bedding @ 60° ca.					
				Mn fine dsd pg in parts.					
				AND SILTSTONE/SHALES					
515'7"	601'4"			MEDIUM GREY SILTSTONES AND GREENISH GREY					
				SILTSTONE/ SHALES					
				Similar to preceding unit but rocks more					
				shaley now					
		515'7"	516'2"	med d gy slt w 10% diffuse q vng – more					
				smoky q.					
		516'2"	520'10"	med gy slt/sh					
		520'10"	521'0"	ppgy fault					329468
		521'0"	525'10"	med gy slt/sh					
		525'10"	528'4"	30% q as diffuse smoky vng in med d gy slt.	525'10"	528'4"	0.002		20
		528'4"	536'0"	med gy slt/sh					
		536'0"	542'7"	s/d d gy slt w 40% q. Two generations of	536'	542'7"	0.009		<10
				q recognisable. One generation of parallel vn's					
				@ 30-35° ca the other (later?) is conjugate to					
				the clv. Neither contain obvious sulphides.					

RESOLUTE RESOURCES LIMITED Hole No. GG2 Sheet 6 of 7

INTERVAL FROM	INTERVAL TO	INCLUDING FROM	INCLUDING TO	DESCRIPTION	ASSAYS - MINES DEPARTMENT OR RESOLUTE From	To	Au(g/t)	Ag(g/t)	As(ppm)
		542'7"	556'0"	med gy slt/sh					
		556'0"	556'6"	d gy. slt / sh					
		556'6"	558'0"	80% q, 20% d gy slt					
		558'0"	558'8"	d gy slt/sh.					
		558'8"	573'6"	med d gy slt / sh					
		573'6"	601'4"	med gy, occasionally med d gy slt/sh. From 587'2" - 588'2" is 75% q. At 590' is mn puggy fault. From 590' - 592' is 50% q + from 601' - 601'4" is 50% q - all q w/ no sulphide	587'2"	588'2"	0.017		10
601'4"	620'8"			PUGGY FAULT ZONE / REEF CHANNEL	601'4"	607'	0.009		20
				Major puggy shear zone with carbonaceous pug + 30% q. Mn py in q but no obvious asp. Shearing is at 40° - 65° ca.	607'	612'8"	0.012		940
					612'8"	620'8"	0.023		20
620'8"	649'10"			GREENISH GREY SILTSTONE / SHALE					
				puggy fault @ 622'6". q cvn' 622' - 622'2" + 642'8" - 642'11". Clv @ 40° ca.					

RESOLUTE RESOURCES LIMITED — Hole No. GG2 — Sheet 7 of 7

INTERVAL FROM	INTERVAL TO	INCLUDING FROM	INCLUDING TO	DESCRIPTION	ASSAYS – MINES DEPARTMENT OR RESOLUTE. FROM	TO	Au(g/t)	Ag(g/t)	As(ppm)
649'10"	655'4"			DARK GREY SILTSTONE.					
655'4"	667'0"			GREENISH GREY SILTSTONE/SHALE Coming into another fault below end of hole with pug @ 665' and last 6" showing shearing. Overall cleavage in this unit is not as intense as in the unit from 620'8" – 649'10"					

92940

RESOLUTE RESOURCES LIMITED — Hole No. GC3 — Sheet 1 of 7

INTERVAL FROM	INTERVAL TO	INCLUDING FROM	INCLUDING TO	DESCRIPTION	ASSAYS – MINES DEPARTMENT OR RESOLUTE. From	To	Au(g/t)	Ag(g/t)	As(ppm)
0	48'7"			LIGHT GREENISH GREY SILTSTONE					
				Bxd hmt q at top of hole is float Slt cs					
				lmc fracs post clv, w c infilling Clv is					
				33°ca. At 30' bg is at 70 ca and mnr dp					
				≈ 40° to the west					
48'7"	51'3"			LIMONITIC QUARTZ / LIGHT GREENISH GREY SILTSTONE					
				50% of each (q + slt) q is lmc bucky w fine					
				lmc fracs as for slt in preceding unit.					
51'3"	310'11"			PREDOMINANTLY GREENISH GREY SILTSTONE/SHALE					
				w lss zs of d gnish gy slt/sh and ibdd d gy/lt gy					
				slt/sh as noted below.					
		51'3"	89'6"	aa v ns v fine oxd fracs					
		89'6"	90'4"	ibdd v d gy and lt gy slt/sh w bg @ 73°ca and					
				clv @ fine d gy partings in the lt gy beds @ 10°ca					
		90'4"	93'	aa gnish gy slt/sh w clv @ 20°ca.					
		93'	96'2"	d gnish gy slt/sh w ibdd lt gy bed @ 94'6" @					
				96'1" is a mn flt w boudinaged q vn's.					
		96'2"	115'6"	aa gnish gy slt/sh. @ 98'6" an 8mm q vn					

32947

INTERVAL FROM	INTERVAL TO	INCLUDING FROM	INCLUDING TO	DESCRIPTION	ASSAYS - MINES DEPARTMENT OR RESOLUTE FROM	TO	Au(g/t)	Ag(g/t)	As(ppm)
				is truncated by fine lmc fracs. bedding from 105'6" to 106'6" cs microfaulting assd w kinks. from 110'2" v fine lmc fracs are pt clv. from 114'6" to 115'6" ibdd slt bg @ 34°ca is sub-pt clv @ 38°ca. lmc fracs are dislocation along bg planes					
		115'6"	116'6"	aa grish gy slt/sh w 2mm to 5mm tk q c veins @ 45 ca. bg is @ 43° ca					
		116'6"	117'2"	bucky q and grish gy slt/sh.					
		117'2"	147'	predominantly my d grish gy slt/sh w mn d gy slt/sh finely ibdd. bg is pt clv @ 120'8". bg is 40°ca, clv 30°ca @ 122'8". Two generations of cct q vn's from 139'8" to 140'10"					
		147'	152'2"	gyish bk slt/sh ibdd, clv 25° ca. mn puggy fault @ 152'					
		152'2"	171'8"	my deformed, grish gy slt/sh w mn puggy zones @ 163' and 171'8" (sub-pt clv) and 159' (sub pt clv and bg). q vng from 163'8" to 163'10" is the product of pervasive silicification					

RESOLUTE RESOURCES LIMITED Hole No. CG3 Sheet 3 of 7

INTERVAL FROM	INTERVAL TO	INCLUDING FROM	INCLUDING TO	DESCRIPTION	ASSAYS - MINES DEPARTMENT OR RESOLUTE: From	To	Au(g/t)	As(g/t)	As(ppm)
		171'8"	183'4"	dk grish gy slt/sh. clv @ 25°ca and bg pr clv					
		183'4"	184'	gyish bk graphitic slt/sh adj to 3" q vn					
		184'	264'10"	my to sg deformed zone of gly med d gy slt/sh w occ puggy zones w deformed q vng and broken core. bg is @ 10°ca @ 190'. mn q vng @ 191', 192'6", 199', 200'9" to 201' and 216'9" to 220' (20% q) puggy zones @ 194' 201' 205', 207', 209', 211' to 213' (w 5% q), 221'9" to 223', 231' to 231'4", 236' to 238' and 250'. clv is 25°ca @ 234'2" and 55°ca @ 221'. bg is @ 60°ca @ 231'					
		264'10"	267'	fractured q vn w fine bk fractures (carbonaceous not arsenopyrite).					
		267'	275'8"	predominantly grish gy slt/sh w lss ibdd d gy sh. clv is 25°ca @ 271'. from 273'8" to 274'4" is a shear @ 45°ca					
		275'8"	280'2"	ibdd d gy and grish gy slt/sh					
		280'2"	293'1"	grish gy slt/sh					

329473

RESOLUTE RESOURCES LIMITED — Hole No. GG3 — Sheet 4 of 7

INTERVAL FROM	INTERVAL TO	INCLUDING FROM	INCLUDING TO	DESCRIPTION	ASSAYS – MINES DEPARTMENT OR RESOLUTE: From	To	Au(g/t)	Ag(g/t)	As(ppm)
		293'1"	294'8"	d gy slt/sh					
		294'8"	306'9"	grish gy slt/sh					
		306'9"	308'	shear zone @ 35° ca					
		308'	310'11"	grish gy slt/sh					
310'11"	325'2"			QUARTZ REEF Much core loss and broken core but 20% q and 80% puggy 'lode slate'					
325'2"	504'			GREENISH GREY SILTSTONE/SHALE clv is 23° ca @ 367', @ 20° ca @ 387'. from 393' to 396' is a zone of ibdd d gy sh w bg @ 20 ca. from 416' to 418'6" is a puggy fault @ 20° ca. Below 486' the rock begins to show some evidence of deformation. The lower contact is gradational into the underlying unit. q c vng is boudinaged near the contact. Most puggy shears near the lower contact are @ 55° ca to 60° ca. Pyrite also shows deformation					

3,294,171

ESOLUTE RESOURCES LIMITED **Hole No.** GG3 **Sheet** 5 **of** 7

INTERVAL -		INCLUDING			ASSAYS - MINES DEPARTMENT OR RESOLUTE.				
FROM	TO	FROM	TO	DESCRIPTION	From	To	Au(g/t)	Ag(g/t)	As(ppm)
504'	526'			REEF / SHEAR puggy shears in my d gn sh w 20% q. The arsenopyrite rich zone may only be 25 cm's if we assume that most core loss from 504'5" to 512'10" (which only measures 2' in the tray) is from the puggy z immediately uphole from the intersection. The lower contact is gradational. The arsenopyrite is in fine fractures throughout the quartz.					
526'	565'2"			DARK GREENISH GREY SILTSTONE/SHALE AND GREENISH GREY SILTSTONE/SHALE. my deformed zone w no obvious puggy z's but strong clv. Contains 5% q overall especially 540' to 540'6", 544' to 545', 551' to 551'6", 559' to 560'6" and 561'5" to 563'. The intensity of deformation increases downhole.					
565'2"	592'			GREENISH GREY SILTSTONE/SHALE clv is @ 30° ca. there is some mn q vng					
592'	609'6"			MODERATELY DEFORMED ZONE puggy zones @ 597' to 597'6" and @ 600' are @ 45° ca. The rocks are gnish gy slt/sh and lss d gn slt/sh w ≈ 10% q vng					

RESOLUTE RESOURCES LIMITED — Hole No. ..... — Sheet 6 of 7

INTERVAL FROM	INTERVAL TO	INCLUDING FROM	INCLUDING TO	DESCRIPTION	ASSAYS - MINES DEPARTMENT OR RESOLUTE. FROM	TO	Au(g/t)	Ag(g/t)	As(ppm)
609'6"	810'6"			VARIABLY COLOURED, MORE COHERENT SILTSTONES/SHALES					
		609'6"	666'6"	d gy slt/sh becoming somewhat lighter below 666'. bg @ 626' is @ 50°ca. q vng from 642'2" to 642'5" possibly contains v mn arsenopyrite. @ 651' clv is @ 40°ca					
		666'6"	671'3"	grish gy slt/sh w v mn c vng sub pt clv					
		671'3"	685'7"	gyish bk slt/sh					
		685'7"	694'8"	grish gy slt/sh					
		694'8"	695'1"	d gy slt/sh					
		695'1"	754'6"	grish gy slt/sh becoming darker downhole. q c vng from 731'6" to 731'8", 738'4" to 739' (w mn arsenopyrite and pyrite). q vng from 739'6" to 739'8" is due to silicification of a siltstone bed					
		754'6"	766'	initially gyish bk slt/sh but lighters v slightly downhole. the lower contact is gradational. fine q vn's are my deformed					

329476

RESOLUTE RESOURCES LIMITED Hole No. GG3 Sheet 7 of 7

INTERVAL FROM	INTERVAL TO	INCLUDING FROM	INCLUDING TO	DESCRIPTION	ASSAYS – MINES DEPARTMENT OR RESOLUTE. From	To	Au(g/t)	Ag(g/t)	As(ppm)
		766'	781'	grnish gy slt/sh w. gradational lower contact					
		781'	790'1"	distinctive lt grnish gy bed w small puggy zone @ 782' followed by d gy and grnish gy slt/sh					
		790'1"	810'6"	d grnish gy slt/sh					
810'6"	811'			PUGGY FAULT					
811'	860'			GENERALLY DARK GREENISH GREY SILTSTONE/SHALE q c vng from 821'2" to 822'4". shear zone from 864' to 864'6" contains silicification of siltstone.					
860'	873'8"			QUARTZ FORMATION 70% milky q and 30% silicified slt/sh in bands w/ mn py in the q. vng is @ 60° to 70° ca					
873'8"	1027'10"			GREENISH GREY SILTSTONE/SHALES occ q vn's especially from 971'8" to 972'4" and 931'0" to 931'3"					3294473

RESOLUTE RESOURCES LIMITED

329478

Project Name: MATH / MANG. Prospect Name: MATHIWNA Tenement No.: 17/91

Sampler: GRANT Sample Type: DIAMOND DRILL CORE Sample Submission No.: K9423.

Note: New Area - New Page & New Sample Type - New Page Date: ___/___/___

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
380821					
2					
3					
4					
5					
6					
7					
8					
9					
380830					
1					
2					
3					
4					
5					
6					
7					
8					
9					
380840					
1	GG2		CORE SAMPLES 19/6/95	60'9" → 65'	
2	"		"	198' → 214'	
3	"		"	342'3" → 349'6"	
4	"		"	367'6" → 370'2"	
5	"		"	395'6" → 401'2"	
6	"		"	474'8" → 484'8"	
7	"		"	525'10" → 528'4"	
8	"		"	536' → 542'7"	
9	"		"	587'2" → 588'2"	
380850	"		"	601'4"	607'

329479

RESOLUTE RESOURCES LIMITED

Project Name: MATH / MANG Prospect Name: MATHINNA Tenement No.: 17/91

Sampler: GRANT Sample Type: DIAMOND DRILL CORE Sample Submission No.: K9423

Note: New Area - New Page & New Sample Type - New Page Date: / /

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
380851	GG2		CORE SAMPLES 19/6/95	607'	→ 612'8"
2	"		"	612'8"	→ 620'8"
3	GG1		"	460'	→ 465'2"
4	"		"	430'8"	→ 436'9"
5					
6					
7					
8					
9					
380860					
1					
2					
3					
4					
5					
6					
7					
8					
9					
380870					
1					
2					
3					
4					
5					
6					
7					
8					
9					
0880					

329480

MinLab

MINCULTURE LABORATORIES PTY LTD ACN 008 980 174 TRUSTEE FOR THE MINLAB UNIT TRUST TRADING AS MINLAB

18A Denninup Way
MALAGA WA 6062
Tel: (09) 249 5277
Fax: (09) 249 5323

257A Forrest Street
KALGOORLIE WA 6430
Tel: (090) 21 5664
Fax: (090) 91 2200

Lot 484 Criddle St
MT MAGNET WA 6638
Tel: (099) 634 532
Fax: (099) 634 531

ANALYTICAL REPORT

Reference No: P61202

Date: 30 JUN 95

AREA COVERED : MT MAGNET

SAMPLE TYPE : ROCK (DIAMOND DRILL SAMPLES - GG1+2)

Samples Received: 27 JUN 95
Order Number : K9423B
Submission Sheet: N/A
Project Number : N/A
Samples in Batch: 14

THIS REPORT HAS BEEN PREPARED FOR

THE RESOLUTE SAMANTHA GROUP

AND SHOULD BE READ IN CONJUNCTION WITH THE FINAL PAGE

Authorised by: A Ferguson
(A.J. Ferguson)

ATTN: G McDONALD
THE RESOLUTE SAMANTHA GROUP
MANGANA RD
FINGAL TAS 7214

329481

Reference No: P61202 ATTN: G McDONALD Page: 1

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
380841	2			10
380842	1			<10
380843	2			<10
380844	2			20
380845	3			20
380845 Rpt	2			20
380846	47			70
380847	2			20
380848	9			<10
380849	17			10
380850	9			20
380851	12			940
380852	38	12	18	20
380853	15			30
380854	2			<10

****

Au, Au(R1), Au(R2),
Technique - Fire Assay on a 50 gram charge followed by solvent extraction

As,
Technique - AAS

END OF REPORT

329483 C/F

RESOLUTE SAMANTHA LIMITED

ANNUAL REPORT
1995

VOLUME 4 | 5

EL 17/91
"MATHINNA"

Grant MacDonald
February 1996
GM609:da

APPENDIX K

Percussion Drill Logs (MT 1 to MT 16, MT 18 to MT 21, MT 24 and MT 26)

329485

Sheet 1 of 4

RESOLUTE RESOURCES LIMITED	Hole No. MT1	Co-ordinates 5407703mN, 574131mE (AMG)	R.L. collar 308mASL
Project MATHINNA / Location TOWNSHIP / Date 23rd Aug '95	Drill type RC	Logged by G MacDonald	Azimuth 090° (TN) / Incl. -60°

From	To	Fol.	Description	4m comp. Sample No.	ASSAY Sample №	Au	As	Ave.	Lith.	Qtz.	Mineralisation	Alteration	Wth. (BofOx)	%q
0	1	wy	d yw/sh org cy tc q	↑									sy	NA
1	2	wy	" mn q	381001 Au 0.05 As <10									sy	NA
2	3	wy	d yw/sh org wcd slt	↓					slt	sm/a			sy	25
3	4	wy	"	↑					"	"			sy	25
4	5	wy	"						"	"			sy	15
5	6	wy	"	381002 Au 0.04 As 30					"	"			sy	15
6	7	wy	"						"	"			sy	15
7	8	wy	"	↓					"	"			sy	30
8	9	wy	"	↑					"	"			sy	20
9	10	wy	"	381003 Au 0.02 As 10					"	"			sy	5
10	11	wy	"						"	"			sy	2
11	12	wy	"	↓					"	"			sy	2
12	13	wy	"	↑					"	"			sy	2
13	14	wy	"	381004 Au 0.04 As 30					"	"			sy	25
14	15	wy	d yw/sh org wcd slt + gnsh gy slt						"	"			sy	10
15	16	wy	" "	↓					"	"			sy	15
16	17	wy	" "	→	381451	0.03	10		"	"			sy	10
17	18	wy	gnsh gy slt	381005 Au 0.12 As 30	381452	0.07	<10		"	"			sy	10
18	19	wy	"		381453	0.31	30		"	"			wy	10
19	20	wy	mod yw/sh bn slt	↓	381454	0.14	10		"	"			sy	5
20	21	wy	p ol slt	↑ 381006 Au 0.68 As 70	381455	0.15	30		"	"			wy	5
21	22	wy	d gnsh gy slt		381456	2.46	60		"	"			-	2

RESOLUTE RESOURCES LIMITED — Hole No. MT1 — 329486 — Sheet 2 of 4

From	To	Fol.	Description	4m comp Sample No	ASSAY Sample No	Au	As	Ave.	Lith.	Qual.	Mineralisation	Alteration	Wth. (BofOx)	%q
22	23	my	d grish gy slt		381457	0.04	<10		slt					tc
23	24	sy	d grish gy fgs lt	↓	381458	0.67	60		fg slt					tc
24	25	sy	"	↑	381459	0.20	50		"					tc
25	26	my	d grish gy slt	381007 Au 0.14 As 140	381460	0.11	10		slt	sm/n	mn py			5
26	27	my	"		381461	0.11	200		"	"	"			tc
27	28	my	"	↓	381462	0.08	100		"	"	"			5
28	29	my	"	↑					"	"	"			15
29	30	my	"	381008 Au 0.06 As 100					"	"	"			10
30	31	wy	"						"	"	mn py, tc asp			5
31	32	wy	"	↓					"	"	0.5% py			10
32	33	my	"	↑					"	"	mn py, tc asp			10
33	34	my	"	381009 Au 0.17 As 340					"	"	"			5
34	35	my	grish bk slt						"	"	"			5
35	36	my	"	↓					"	"	mn py			5
36	37	my	d grish gy slt	↑	381463	0.13	500		"	"	tc py			2
37	38	my	"	381010 Au 0.11 As 280	381464	0.11	60		"	"	"			2
38	39	my	"		381465	0.17	560		"	"	mn py, tc asp			15
39	40	my	"	↓	381466	0.13	70		"	"	tc py			1
40	41	wy	grish gy slt	↑	381467	0.07	70		"	"	mn py, tc asp			25
41	42	wy	"	381011 Au 0.15 As 1050	381468	0.14	1290		"	"	mn py			15
42	43	wy	"		381469	0.17	540		"	"	"			50
43	44	my	d grish gy fg slt	↓	381470	0.14	930		fg slt	"	tc py			40
44	45	my	"	↑					"	"	mn py			30
45	46	my	grish gy slt	381012 Au 0.06 As 535					slt	"	tc py			3
46	47	my	"						"	m/sm	0.5% py			75

RESOLUTE RESOURCES LIMITED Hole No. MT1 329487 Sheet 3 of 4

From	To	Fol.	Description	4m comp Sample No	Sample No	ASSAY Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
47	48	my	grish gy slt	↓					slt	mfr	mn py			75
48	49	my	"	↑					"	"	tc py			65
49	50	my	"	381013 Au 0.07 As 90					"	"	"			40
50	51	my	"						"	"	0.5% py			90
51	52	my	"	↓					"	Sm/m	tc py			10
52	53	my	"	↑					"	"	"			15
53	54	my	d grish gy slt	381014 Au 0.11 As 90					"	m/sm				15
54	55	my	"						"	"	tc py			15
55	56	my	"	↓					"	"	"			2
56	57	my	"	↑					"	Sm/m	"			2
57	58	my	"	381015 Au 0.07 As 110					"		"			5
58	59	my	grish gy slt						"		"			50
59	60	my	"	↓					"					40
60	61	my	"	↑					"					5
61	62	my	"	381016 Au 0.17 As 80					"		tc py			5
62	63	my	d grish gy slt						"		"			5
63	64	my	"	↓					"		mn py			5
64	65	my	grish bk slt	↑					"		"			3
65	66	my	d grish gy slt	381017 Au 0.03 As 50					"		tc py			2
66	67	my	"						"		"			5
67	68	my	"	↓					"					tc
68	69	my	d grish gy fg slt	↑					fg slt					1
69	70	my	d grish gy slt	381018 Au 0.06 As 140					"		mn py			5
70	71	my	"						"		mn py, tc asp			15
71	72	my	"	↓					"		mn py			30

RESOLUTE RESOURCES LIMITED Hole No. MT1 329483 Sheet 4 of 4

From	To	Fol.	Description	4m comp Sample No	ASSAY Sample No	Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
72	73	my	d grish gy slt	↑					slt		tc py			20
73	74	my	"	381019 Au 0.07 As 30					"		"			2
74	75	my	"						"					tc
75	76	my	d grish gy fg slt	↓					fg slt					tc
76	77	my	"	↑					"					tc
77	78	my	"	381020 Au 0.02 As 20					"		tc py			2
78	79	my	"	↓					"		"			2
79	80													
80	81													
81	82													
82	83													
83	84													
84	85													
85	86													
86	87													
87	88													
88	89													
89	90													
90	91													
91	92													
92	93													
93	94													
94	95													
95	96													
96	97													

329489

Sheet 1 of 4

RESOLUTE RESOURCES LIMITED	Hole No. MT2	Co-ordinates 5407710mN, 574168mE (AMG)	R.L. collar 313 masl
Project MATHINNA	Location TOWNSHIP	Date 23rd + 24th Aug '95	Drill type RC	Logged by G MacDonald	Azimuth 090° (TN)	Incl. -60°

From	To	Fol.	Description	4m comp Sample No.	ASSAY			Ave.	Lith.	Q+z	Mineralisation	Alteration	Wth. (BofOx)	%q
0	1	wy	d gwish org slt	→	381471	0.52	520		slt	sm-l			sy	10
1	2	wy	"	381021 Au 0.97 As 340	381472	0.44	700		"	"			sy	20
2	3	wy	"		381473	0.25	130		"	"			sy	30
3	4	wy	"	↓	381474	0.49	340		"	"			sy	30
4	5	my	"	→	381475	13.6	490		"	"			sy	75
5	6	my	"	381022 Au 4.09 As 740	381476	0.50	570		"	"			sy	15
6	7	my	d gwish org + lt gnish gy fg slt		381477	0.69	590		fg slt	"	tc asp		sy	30
7	8	my	"	↓	381478	0.29	830		"	"			sy	25
8	9	my	"	→	381479	0.21	850		"	"			sy	40
9	10	my	lt gnish gy " gyish org slt	381023 Au 0.20 As 370	381480	0.25	240		slt	"			sy	5
10	11	my	"		381481	0.07	30		"	"			sy	5
11	12	my	"	↓	381482	0.03	115		"	"			sy	5
12	13	sy	gnish gy fg slt	→					fg slt	sm			sy	tc
13	14	sy	"	381024 Au 0.03 As 70					"	"			my	tc
14	15	sy	"						"	"			my	tc
15	16	sy	d gnish gy fg slt	↓					"	"			my	tc
16	17	sy	"	→					"	"			my	tc
17	18	sy	"	381025 Au 0.06 As <10					"	"			my	tc
18	19	sy	"						"	"			my	tc
19	20	sy	"	↓					"	"			my	tc
20	21	sy	"	→ 381026 Au 0.10 As 310					"	"			my	tc
21	22	sy	"						"	"			my	1

RESOLUTE RESOURCES LIMITED — Hole No. MT2 — 329490 — Sheet 2 of 4

From	To	Fol.	Description	4m Comp Samples No	ASSAY Sample No	Au	As	Ave.	Lith.	Qtz.	Mineralisation	Alteration	Wth. (BofOx)	%q
22	23	sy	d grish gy fg slt						fg slt	sm/m	tc py			3
23	24	my	"						"	sm	mn py			10
24	25	my	"						"	"	mn py			10
25	26	my	d grish gy slt	381027 Au 0.05 As 80					slt	"	tc py			3
26	27	my	"						"	"				tc
27	28	my	"						"	"				tc
28	29	my	"		381483	0.07	80		"	"				2
29	30	my	"	381028 Au 0.40 As 120	381484	0.55	70		"	"				2
30	31	my	d grish gy fg slt		381485	0.02	140		fg slt	"				1
31	32	my	"		381486	0.25	90		"	"				1
32	33	sy	d grish gy slt/sh						slt/sh					
33	34	sy	"	381029 Au 0.05 As 80					"		tc py			tc
34	35	sy	"						"		"			tc
35	36	sy	"						"	sm	"			2
36	37	sy	"						"	"	"			2
37	38	sy	grish gy slt/sh	381030 Au 0.12 As 70					"					tc
38	39	sy	"						"					tc
39	40	sy	d grish gy slt/sh						"					tc
40	41	my	d grish gy slt		381487	<0.01	20		slt	sm				10
41	42	my	"	381031 Au 0.26 As 390	381488	0.25	20		"	"	mn py, tc asp			10
42	43	wy	"		381489	0.54	200		"	"	ab py, tc py in part mn py	v mn s- of slt		50
43	44	wy	"		381490	0.17	740		"	"	mn py, tc asp	"		40
44	45	wy	"		381491	0.28	1290		"	"	ab py, tc asp in part mn py	"		30
45	46	wy	"	381032 Au 0.25 As 1000	381492	0.56	990		"	"	ab py, mn asp in part mn py, tc asp	"		50
46	47	wy	"		381493	0.06	890		"	"	ab py, tc asp in part mn py	"		50

RESOLUTE RESOURCES LIMITED Hole No. MT2 329191 Sheet 3 of 4

From	To	Fol.	Description	4m comp° Sample No	Sample No	ASSAY Au	ASSAY As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
47	48	my	d grish gy slt	↓	381494	0.01	30		slt	sm/m	mn py, tc alp in pm tc py	mn s- of slt		10
48	49	my	"	→					"	"	mn py, tc alp in pm "	"		10
49	50	my	"	381033 Au 0.04 As 60						n	ab py " in pm	"		5
50	51	my	"						"	"	mn py	"		10
51	52	my	"	↓					"	"	"	"		10
52	53	my	d grish gy slt >> grish bk slt/sh	→					slt/slt/sh	"	tc py	"		5
53	54	my	"	381034 Au 0.07 As 200					"	"	mn py	"		10
54	55	my	d grish gy slt						slt	"	tc py	"		5
55	56	my	"	↓					"	"	mn py	"		30
56	57	my	d grish gy slt >> grish bk slt/sh	→					slt/slt/sh	"	"	"		20
57	58	wy	d grish gy slt	381035 Au 0.02 As 40					slt	"	"	"		30
58	59	wy	"						"	sm	"	"		10
59	60	wy	"	↓					"	sm/m	tc py	"		20
60	61	wy	"	→					"	"	"	"		15
61	62	my	"	381036 Au 0.02 As <10					"	"				tc
62	63	my	"						"	"	tc py	mn s- of slt		15
63	64	my	"	↓					"	"	mn py	"		15
64	65	my	"	→					"	"	tc py	"		15
65	66	my	"	381037 Au 0.06 As 80					"	"	"			5
66	67	my	"						"	"	"			10
67	68	my	d grish gy slt/sh	↓					slt/sh	"	"			20
68	69	my	"	→					"	m/sm	"			15
69	70	my	"	381038 Au 0.04 As 70					"	"	"			15
70	71	sy	"						"	"	"			10
71	72	sy	grish gy slt/sh	↓					"	"				5

RESOLUTE RESOURCES LIMITED Hole No. MT2 329492 Sheet 4 of 4

From	To	Fol.	Description	4m comp Sample No	Sample No	ASSAY Au	Au	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
72	73	sy	gn ish gy slt/sh	↑					slt/sh	sn/n	tc py	ma silic of slt/sh		2
73	74	sy	"	381039 Au 0.10 As 50					"	"		"		5
74	75	sy	"						"	"		ma silic of slt/sh		10
75	76	sy	"	↓					"	"		"		5
76	77	sy	d gn ish gy slt/sh	↑					"					
77	78	sy	"	381040 Au 0.02 As 50					"					
78	79	sy	?											
79	80	sy	"	↓					"					2
80	81	sy	gn ish gy slt/sh	↑					"	n/sn				5
81	82	sy	"	381041 Au 0.05 As 30					"	"				10
82	83	sy	"						"	"	tc py			5
83	84	sy	"	↓					"	sn/n	tc py			5
84	85													
85	86													
86	87													
87	88													
88	89													
89	90													
90	91													
91	92													
92	93													
93	94													
94	95													
95	96													
96	97													

329493 Sheet 1 of 4

RESOLUTE RESOURCES LIMITED

Hole No.	Co-ordinates	R.L. collar
MT3	5407800mN, 574268mE (AMG)	309 masl

Project	Location	Date	Drill type	Logged by	Azimuth	Incl.
MATHINNA	TOWNSHIP.	24th+25th Aug '95	RC	G MacDonald	270° (TN)	-60°

From	To	Fol.	Description	4m comp. Sample No	ASSAY Sample No	Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
0	1		d ywish org slt.	→					slt	sm			sy	2
1	2	wy	"	381042 Au 027 As 70					"	"		mn s.v. of slt	sy	50
2	3	wy	"						"	"		"	sy	30
3	4	my	d gwish org slt/sh	↓					slt/sh	"		"	sy	10
4	5	my	"	→					"	"			sy	2
5	6	my	"	381043 Au 02 As 40					"	"		v mn s.v of slt	sy	5
6	7	my	"						"				sy	tc
7	8	my	"	↓					"			v mn s.v of slt.	sy	2
8	9	my	"	→					"				sy	tc
9	10	sy	"	381044 Au 0.01 As 20					"				sy	
10	11	sy	lt ol gy slt/sh						"				my	tc
11	12	sy	"	↓					"				my	tc
12	13	sy	"	→					"				my	tc
13	14	sy	"	381045 Au 0.03 As 40					"	sm			my	15
14	15	sy	"						"	"			my	5
15	16	sy	gyish ol gn slt/sh	↓					"				wy	tc
16	17	sy	"	→					"				wy	
17	18	sy	"	381046 Au 0.01 As 20					"				wy	2
18	19	sy	med d gy slt/sh						"				wy	tc
19	20	sy	gnish gy slt/sh	↓					"				wy	tc
20	21	sy	"	381047 → Au 0.25 As 40					"					tc
21	22	my	med d gy slt/sh						"	sm.				2

RESOLUTE RESOURCES LIMITED Hole No. MT3 329494 Sheet 2 of 4

From	To	Fol.	Description	4m comp. Sample №	ASSAY Sample №	Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
22	23	my	lt gy slt						slt	s-v/v	mn py in q	mn s.v. of slt		75
23	24	my	"	↓					"	"	tr py in q	"		80
24	25	my	lt gy fg slt	↑					fg slt	"	"	v mn s.v. of slt		15
25	26	sy	lt gy slt/sh	381048 Au 0.02 As 40					slt/sh	m/sv		"		15
26	27	sy	"						"			"		15
27	28	sy	"	↓					"					2
28	29	sy	"	↑					"					tc
29	30	sy	med gy slt/sh	381049 Au 0.08 As 30					"					tc
30	31	sy	med lt gy slt/sh						"					tc
31	32	sy	d grish gy slt/sh	↓					"	sv/v				5
32	33	sy	"	↑					"					1
33	34	sy	"	381050 Au 0.02 As 40					"	sv/v	tr py			5
34	35	sy	"						"					tc
35	36	sy	"	↓					"					tc
36	37	sy	"	↑					"	sv/v	tr py			10
37	38	sy	"	381051 Au 0.01 As 10					"	"				10
38	39	sy	"						"					tc
39	40	sy	"	↓					"					tc
40	41	my	d grish gy fg slt	↑					fg slt					tc
41	42	my	"	381052 Au<0.01 As<10					"					
42	43	my	"						"					
43	44	my	"	↓					"		tr dsd py in slt			
44	45	my	"	↑					"	sv/v				5
45	46	my	"	381053 Au<0.01 As 20					"					tc
46	47	my	"						"	sv/m				3

RESOLUTE RESOURCES LIMITED Hole No. MT3 329495 Sheet 3 of 4

From	To	Fol.	Description	4m comp Sample No	ASSAY Sample No	Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
47	48		d grish gy fg slt 2mm q stringers	↓					fg slt	5m				3
48	49		" "	↑					"	"				5
49	50		" "	381054 Au 0.02 As 30					"	"		mn s.m of fg slt		15
50	51		" "						"	"		v mn s.m of fg slt		10
51	52		"	↓					"	"				3
52	53		"	↑					"					tc
53	54		"	381055 Au 0.01 As <10					"					
54	55		" q stringers to 5mm						"	5m	tc py as stv' to vnl'			5
55	56		"	↓					"					
56	57		" q vnl' to 2mm	↑					"	5m		mn s.m of fg slt		2
57	58		"	381056 Au 0.01 As 10					"					tc
58	59		" q vnl' to 2mm						"	5m	mn dsd py in slt	mn s.m of fg slt		10
59	60		" "	↓					"	"	mn dsd py in slt + q	"		15
60	61		"	↑					"		tc dsd py in slt			tc
61	62		"	381057 Au 0.01 As 10					"			v mn s.m of fg slt		tc
62	63		grish gy fg slt						"	5m		"		2
63	64		"	↓					"		tc dsd py in slt			tc
64	65		" q vnl' to 10mm	↑	381495	0.11	<10		"	m/5m	mn py in q			15
65	66		"	381058 Au 0.20 As 30	381496	0.09	<10		"					tc
66	67		"		381497	0.30	<10		"	m/5m	tc dsd py in slt			5
67	68		grish gy + lt grish gy fg slt + q vnl's 1mm assd w sin	↓	381498	0.10	10		"	"	mn dsd py in slt	mn s.m of slt		25
68	69		" "	↑	381499	0.14	<10		"	5m	"	v mn s.m of slt		25
69	70		" "	381059 Au 0.14 As 10	381500	0.03	<10		"		tc dsd py			1
70	71		" "		381501	0.19	10		"	5m	"			5
71	72		" "	↓	381502	0.45	<10		"	5m	"			30

RESOLUTE RESOURCES LIMITED — Hole No. MT3 — 329496 — Sheet 4 of 4

From	To	Fol.	Description	4 m comp Sample No	ASSAY Sample No	ASSAY Au	ASSAY As	ASSAY Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (Bot/Ox)	%q
72	73	my	grish gy & lt grish gy fg slt	↑		+ fine smdy q		vnl'	fg slt	sm	tc py, tc asp in q	v mn stn of slt		5
73	74	my	"	381060 Au 0.09 As <10			"		"		mn dsd py	mn stn of slt		30
74	75	my	"						"		mn py	"		25
75	76	my	"	↓					"		"	"		30
76	77	sy	d grish gy slt/sh	↑					slt/sh		"	v mn stn of slt		15
77	78	sy	"	381061 Au <0.02 As <10					"		"	"		10
78	79	sy	"						"		tc py in slt			2
79	80	sy	"	↓					"		"	mn stn of slt		5
80	81	sy	d grish gy & lt grish gy slt/sh	↑					"		"	"		15
81	82	my	d grish gy fg slt						fg slt		"			tc
82	83	my	"	381062 Au <0.01 As <10					"		"			5
83	84	wdy	grish gy slt	Au As					slt		"	perv stn of slt		50
84	85	my	d grish gy fg slt	↓					fg slt		"			3
85	86													
86	87													
87	88													
88	89													
89	90													
90	91													
91	92													
92	93													
93	94													
94	95													
95	96													
96	97													

329497 Sheet 1 of 4

RESOLUTE RESOURCES LIMITED	Hole No. MT4	Co-ordinates 5408000mN, 574296mE (AMG)	R.L. collar 287 masl
Project MATHINNA	Location TOWNSHIP	Date 25th & 26th Aug '95	Drill type RC	Logged by G MacDonald	Azimuth 090°(TN)	Incl. -60°

From	To	Fol.	Description	4m composite Sample No.	ASSAY Sample No.	Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
0	1	wy	d ywish org wed slt/sh	→					slt/sh	sm			sy	30
1	2	my	"	381063 Au 0.04 As 40					"	"			sy	20
2	3	my	"						"	"			sy	70
3	4	my	"	↓					"	"			sy	80
4	5	my	mod bn wed slt/sh	→					"	"			sy	5
5	6	my	"	381064 Au 0.01 As 60					"	"			sy	10
6	7	sy	"						"	"			sy	10
7	8	sy	"	↓					"				sy	tc
8	9	sy	"	→					"				sy	
9	10	sy	"	381065 Au 0.06 As 400					"				sy	
10	11	my	d ywish org slt						slt	sm			sy	75
11	12	wy	"	↓					"	sm/m			sy	60
12	13	wy	"	→					"	"			sy	75
13	14	wy	"	381066 Au 0.06 As 510					"	sm	no sd' in pan.	my s.d slt	sy	80
14	15	wy	"						"	"		wy s.d slt	sy	30
15	16	wy	"	↓					"	"			sy	40
16	17	wy	"	→					"	m/sm	no sd' in pan		sy	80
17	18	wy / my	17-17.5 " / 17.5-18 ywish gy (wed) slt	381067 Au 0.10 As 510					"				my	50 -
18	19	my	"						"	sm			my	5
19	20	my	"	↓					"	sm/m			sy	30
20	21	my	gyish ol slt	→					"	"		mn sin of slt	my	10
21	22	my	"	381068 Au 0.02 As 150					"			"	my	10

RESOLUTE RESOURCES LIMITED Hole No. MT4 329498 Sheet 2 of 4

From	To	Fol.	Description	Sample No.	Sample No.	ASSAY Au	ASSAY As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
22	23	my	d grish gy slt						slt				my	tc
23	24	my	d grish gy slt/sh + slt	↓					slt/sh / slt	sm/m			my	30
24	25	wy	d grish gy slt	↑					slt				wy	1
25	26	wy	"	381069 Au <0.01 As 105					"		mn py			1
26	27	my	d grish gy slt						"					2
27	28	my	"	↓					"		tc py			
28	29	my	d grish gy slt	↑					"	sm	"			25
29	30	wy	d grish gy slt	381070 Au 0.02 As 90					"	m/sm				15
30	31	my	"						"	"				15
31	32	my	"	↓					"	sm/m	tc py in q			30
32	33	my	" >> slt/sh	↑					slt / slt/sh	"	"			30
33	34	my	d grish gy slt/sh	381071 Au 0.02 As 40					slt/sh	"				5
34	35	my	"						"	"				5
35	36	my	"	↓					"	"				5
36	37	my	grish gy slt	↑	381503	0.07	<10		slt	"				70
37	38	my	grish gy slt/sh	381072 Au 0.16 As 30	381504	0.05	20		slt/sh	"	tc dsd py in slt			5
38	39	my	"		381505	0.17	10		"		"			tc
39	40	my	"	↓	381506	0.17	<10		"					
40	41	sy	"	↑	381507	0.36	<10		"					
41	42	sy	grish gy slt/sh	381073 Au 0.26 As 10	381508	0.16	<10		"					
42	43	sy	"		381509	0.12	<10		"					tc
43	44	sy	mod d gy slt/sh + grish gy slt/sh	↓	381510	0.14	<10		"		tc dsd py in slt			tc
44	45	sy	" "	↑					"		"			tc
45	46	sy	grish gy slt/sh	381074 Au 0.13 As <10					"		"			
46	47	sy	"						"		"			

RESOLUTE RESOURCES LIMITED Hole No. MT4 329499 Sheet 3 of 4

From	To	Fol.	Description	Sample No.	Sample No.	ASSAY Au	ASSAY As	ASSAY Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
47	48	sy	gnish gy slt/sh	↓					slt/sh	sm/m				2
48	49	sy	" + med gy slt/sh	↑					"		tc dsd py	sil of slt		25
49	50	sy	" "	381075		Au 0.06	As <10		"					
50	51	sy	"						"					
51	52	sy	"	↓					"	sm	tc dsd py in slt			5
52	53	sy	"	↑					"					
53	54	sy		381076		Au 0.06	As <10		"					
54	55	sy							"					
55	56	sy		↓					"					
56	57	sy		↑					"					
57	58	sy		381077		Au 0.01	As 20		"					
58	59	sy	gnish gy fg slt						fg slt	sm/m	tc dsd py			10
59	60	sy	"	↓					"	"	"			5
60	61	sy	gnish gy slt/sh	↑					slt/sh					
61	62	sy	"	381078		Au 0.10	As 10		"					
62	63	sy	d gnish gy slt/sh						"					
63	64	sy	"	↓					"	sm/m	mn drd py in slt			30
64	65	my	d gnish gy fg slt	↑					fg slt	"	mn py			50
65	66	sy	gnish blk slt/sh	381079		Au 0.02	As 10		slt/sh	"	tc py			5
66	67	my	d gnish gy fg slt						fg slt	"	"			5
67	68	my	"	↓					"	"				2
68	69	sy	gnish blk slt/sh	↑					slt/sh	"				tc
69	70	wy	d gnish gy fg slt	381080		Au 0.01	As <10		fg slt	"	tc py			60
70	71	wy	"						"	m/sm	mn py in q			70
71	72	wy	gnish gy fg slt	↓					"	"	"			90

RESOLUTE RESOURCES LIMITED Hole No. MT4 329500 Sheet 4 of 4

From	To	Fol.	Description	Sample No.	Sample Nº	ASSAY Au	ASSAY As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
72	73	wy	d gr·sh gy slt	↑					slt	m/sm	mn py in q			20
73	74	wy	"	381081 Au 0.01 As <10					"	"				15
74	75	wy	"						"	sm		mn s·· of slt		20
75	76	wy	"	↓					"	m/sm	tc py			60
76	77	my	"	→					"	"				15
77	78	my	"	381082 Au <.001 As <10					"	"	tc py			15
78	79	sy	d gr·sh gy slt/sh						slt/sh	"				5
79	80	my	d gr·sh gy fg slt	↓					fg slt	"				15
80	81	sy	d gr·sh gy slt/sh	↑					slt/sh					tc
81	82	sy	"						"					
82	83	sy	"	381083 Au <.001 As <10					"					
83	84	sy	"						"					
84	85	sy	"	↓					"					
85	86													
86	87													
87	88													
88	89													
89	90													
90	91													
91	92													
92	93													
93	94													
94	95													
95	96													
96	97													

320501

Sheet 1 of 3

RESOLUTE RESOURCES LIMITED	Hole No. MTS	Co-ordinates 5408200 mN, 574195 mE (AMG)	R.L. collar 292 mas.l.
Project MATHINNA / Location TOWNSHIP / Date 26th Aug '95	Drill type RC	Logged by G MacDonald.	Azimuth 090°TN / Incl. -60°

From	To	Fol.	Description	4m composite Sample No.	Sample#	ASSAY Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
0	1	-	red bn cy aft slt/sh						slt/sh				sy	NA
1	2	-	org bn cy aft slt/sh	381084 Au 0.06 As 300					"				sy	NA
2	3	-	"						"				sy	NA
3	4	wy	red bn - org bn slt/sh						"	sm/m			sy	NA
4	5	wy	tan and org bn slt/sh						"	"			sy	10
5	6	my	tan and org bn slt/sh	381085 Au 0.01 As 50					"	"			sy	5
6	7	Sy	org bn slt/sh						"				sy	tc
7	8	Sy	"						"	sm/m			sy	5
8	9	Sy	"						"	"			sy	1
9	10	Sy	org bn + wod d grish gy slt/sh	381086 Au 0.03 As 100					"	"			my	10
10	11	Sy	"						"	"			my	15
11	12	Sy	wod d grish gy slt/sh						"				my	
12	13	Sy	"						"				my	
13	14	Sy	"	381087 Au 0.01 As 110					"				my	
14	15	Sy	"						"				my	
15	16	Sy	"						"				my	
16	17	Sy	"						"				my	
17	18	My	"	381088 Au 0.01 As 80					"	sm/m			my	10
18	19	My	"						"	"			my	5
19	20	My	"						"	"			my	3
20	21	Sy	d grish gy slt/sh	381089 Au 0.06 As 505					"	"	tc py in q			5
21	22	Sy	"						"	m/sm	tc py			5

RESOLUTE RESOURCES LIMITED — Hole No. MT5 — 329502 — Sheet 2 of 3

From	To	Fol.	Description	Sample No.	ASSAY Sample	Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
22	23	sy	d grish gy slt/sh						slt/sh	sm/m				5
23	24	my	d grish gy fg slt	↓					fg slt	m/sm				40
24	25	my	"	⇑					"					
25	26	my	"	381090 Au 0.02 As 80					"	sm	tc dsd py in slt			2
26	27	my	"						"	sm/m				5
27	28	my	"	↓					"	"				5
28	29	my	"	→					"	"				3
29	30	my	"	381091 Au 0.01 As 30					"					
30	31	wy	d grish gy slt						slt	sm/m				5
31	32	wy	"	↓					"	"				3
32	33	wy	"	⇑					"	"	tc py in q			5
33	34	wy	"	381092 Au 0.01 As 400					"	"	"			3
34	35	wy	"						"	m/sm				5
35	36	wy	"	↓					"	sm/m	tc py in q			10
36	37	wy	d grish gy fg slt	⇑					fg slt	"				10
37	38	wy	d grish gy slt	381093 Au 0.01 As 70					slt	m/sm				5
38	39	wy	"						"	"				2
39	40	my	d grish gy fg slt	↓					fg slt	sm				2
40	41	my	"	→					"					tc
41	42	my	"	381094 Au <0.01 As 35					"	sm/m				3
42	43	my	d grish gy slt						slt					tc
43	44	my	"	↓					"	sm/m				5
44	45	my	"	→					"	sm				20
45	46	my	d grish gy fg slt	381095 Au 0.01 As 70					fg slt	sm/m				30
46	47	my	"						"	"				5

RESOLUTE RESOURCES LIMITED — Hole No. MT5 — 329503 — Sheet 3 of 3

From	To	Fol.	Description	Sample No.	ASSAY Sample№	Au	As	Ave.	Lith.	Q+z	Mineralisation	Alteration	Wth. (BofOx)	%q
47	48	my	v d grish gy fg slt	↓					fg slt	sm/m	mn py			5
48	49	my	"	↑					"	"				2
49	50	my	"	381096 Au 0.01 As 25					"					tc
50	51	my	"						"					tc
51	52	my	v d grish gy slt/sh	↓					slt/sh					
52	53	my	v d grish gy fg slt	↑					fg slt					
53	54	Gy	v d grish gy slt/sh	381097 Au 0.08 As 390					slt/sh					
54	55	Gy	"						"					
55	56	my	d grish gy fg slt	↓					fg slt	m/sm				30
56	57	my	" + v d grish gy slt/sh	↑	381511	0.04	250		"	sm	tc py			10
57	58	my	" "	381098 Au 0.30 As 1140	381512	0.09	360		"	sm/m				10
58	59	wy	grish gy slt		381513	0.06	310		slt	"	tc asp			50
59	60		"	↓	381514	1.01	2940		"	"	mn py, tc asp			70
60	61	my	grish gy fg slt	↑					fg slt	"	mn py, mn asp			25
61	62	Sy	grish gy slt/sh	381099 Au 0.09 As 710					slt/sh					
62	63	Sy	"						"					
63	64	Sy	"	↓					"					
64	65	Sy	"	↑					"	sm/m	tc py in q			15
65	66	Sy	"	381100 Au 0.05 As 90					"	"	"			2
66	67	Sy	"	↓					"					
67	68													
68	69													
69	70													
70	71													
71	72													

329501 Sheet 1 of 3

RESOLUTE RESOURCES LIMITED			Hole No. MT 6	Co-ordinates 5408193mN, 574225mE (AMG)		R.L. collar 292 m a.s.l.
Project MATHINNA	Location TOWNSHIP	Date 27th Aug '95	Drill type RC	Logged by G MacDonald	Azimuth 090°(TN)	Incl. -60°

From	To	Fol.	Description	4m composite Sample No.	ASSAY Sample No.	Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
0	1		org bn cy aft slt?	↓					slt?	m			sy	NA
1	2		"	381101 Au 003 As 90					"	m/sm			sy	NA
2	3		org bn and tan cy aft slt						slt	"			sy	NA
3	4		"	↓					"	"			sy	NA
4	5		"	↑					"	"			sy	NA
5	6		"	381102 Au 002 As 20					"				sy	
6	7		p yw bn slt						"	sm/m	no sd' in pm.		sy	20
7	8		"	↓					"	"			sy	5
8	9		"	↓					"	"			sy	10
9	10		"	381103 Au 0.05 As 240					"	"			sy	20
10	11		"						"	"			sy	5
11	12		wod d gy.sh gn slt/sh	↓					slt/sh	"			sy	15
12	13		wod d gy.sh gn fg slt	↑					fg slt	"			sy	tc
13	14		wod d gy.sh gn slt/sh	381104 Au 0.09 As 540					slt/sh	"			sy	15
14	15		wod slt/sh						"	"			sy	5
15	16		"	↓					"	"			sy	tc
16	17		"	↑	381515	0.20	800		"	"			sy	tc
17	18		org bn slt	381105 Au 036 As 2180	381516	0.97	3830		slt	m/sm			sy	90
18	19		"		381517	0.37	2810		"	"	mn arp on fol surfaces		sy	80
19	20		tan bn slt	↓	381518	0.09	90		"	sm/m			sy	40
20	21		"	↑ 0.02 230					"	m/sm			sy	30
21	22		d gn.sh gn slt	381106 Au As					"	sm/m			my	10

RESOLUTE RESOURCES LIMITED Hole No. MT6 329505 Sheet 2 of 3

From	To	Fol.	Description	Sample No.	Sample No.	ASSAY Au	ASSAY As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
22	23	Sy	d gy.ish gn slt/sh						slt/sh					5
23	24	Sy	gy.ish gn slt/sh	↓					"					tr
24	25	Sy	"	↑					"					5
25	26	Sy	"	381107 Au 0.02 As 90					"					tr
26	27	Sy	"						"					50
27	28	Sy	"	↓					"					5
28	29	Sy	"	↑					"					10
29	30	Sy	"	381108 Au 0.01 As 90					"					25
30	31	Sy	p gy.ish gn slt/sh						"					5
31	32	Sy	"	↓					"					
32	33	Sy	"	↑					"					
33	34	Sy	"	381109 Au 0.01 As <10					"					
34	35	Sy	gn.ish gy + blu.ish gy slt/sh						"					
35	36	Sy	" "	↓					"					
36	37	Sy	" "	↑					"					
37	38	Sy	" "	381110 Au 0.03 As 20					"					
38	39	Sy	gn.ish gy slt/sh						"					
39	40	Sy	"	↓					"		mn cubic py			
40	41	Sy	" + blu.ish gy slt/sh	↑					"		"			
41	42	Sy	blu.ish gy slt/sh >> gn.ish gy slt/sh	381111 Au 0.01 As <10					"					
42	43	Sy	" "						"					
43	44	Sy	" "	↓					"					
44	45	Sy	" "	↑					"					
45	46	Sy	" "	381112 Au 0.01 As <10					"					
46	47	Sy	" "						"					

329506

RESOLUTE RESOURCES LIMITED Hole No. MT6 Sheet 3 of 3

From	To	Fol.	Description	Sample No.	Sample Wt	ASSAY Au	As	Ave.	Lith.	Qtz Vn	Mineralisation	Alteration	Wth. (BofOx)	%q
47	48	sy	grish gy . blwish gy slt/sh	↓					slt/sh					
48	49	sy	" "	↑					"					
49	50	sy	blwish gy >> grish gy slt/sh	381113 Au 0.01 As <10					"					
50	51	sy	" "						"	sm/vn				tc
51	52	sy	blwish gy . grish gy slt/sh	↓					"					
52	53	sy	grish gy slt/sh	↑					"					
53	54	my	"	381114 Au 0.04 As 30					"					
54	55	my	d grish gy fg slt						fg slt					
55	56	wy	d grish gy slt	↓					slt	sm/vn				2
56	57	wy	"	↑					"	"				2
57	58	wy	"	381115 Au 0.01 As 20					"	"	tc py			tc
58	59	my	d grish gy fg slt						fg slt	"				tc
59	60	my	"	↓					"	"	tc py			1
60	61													
61	62													
62	63													
63	64													
64	65													
65	66													
66	67													
67	68													
68	69													
69	70													
70	71													
71	72													

329507 Sheet 1 of 4

RESOLUTE RESOURCES LIMITED	Hole No. MT 7	Co-ordinates 5408085mN, 574200mE (AMG)	R.L. collar 295 m a.s.l.
Project MATHINNA / Location TOWNSHIP / Date 27th Aug '95	Drill type RC	Logged by G MacDonald	Azimuth 090° (TN) / Incl. -60°

From	To	FoL	Description	4m composite Sample No.	ASSAY Sample#	Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
0	1		clay pots and q frag'	↑									sy	NA
1	2	sy	d ywish grg cy aft slt/sh	381116 Au 0.03 As 50					slt/sh				sy	NA
2	3	sy	"						"				sy	tr
3	4	sy	"	↓					"				sy	tr
4	5	sy	"	↑					"				sy	
5	6	sy	"	381117 Au 0.01 As 40					"				sy	
6	7	sy	"						"				sy	
7	8	sy	"	↓					"				sy	
8	9	sy	gnish gg slt/sh	↑					"				wy	
9	10	my	gnish gg slt	381118 Au 0.02 As 50					slt	sm/sm			wy	30
10	11	my	gnish gg slt → d gg slt/sh						slt/slt&q	"			wy	10
11	12	my	wod gnish gg slt	↓					slt	"			wy	5
12	13	my	"	↑					"	"			wy	10
13	14	my	"	381119 Au 0.04 As 550					"	"			wy	30
14	15	my	"						"	"			wy	30
15	16	my	"	↓					"	sm	asp in pan. mn asp in q		wy	30
16	17	my	"	↑					"	"			wy	15
17	18	my	med d gg fg slt	381120 Au 0.05 As 70					fg slt	"				10
18	19	my	med d gg slt						slt					
19	20	my	"	↓					"					
20	21	my	d gnish gg slt	↑ 381121 Au 0.04 As 90					"	m/sm				25
21	22	wy	"						"	sm/sm			wy	30

RESOLUTE RESOURCES LIMITED

Hole No. MT7

329508

Sheet 2 of 4

From	To	Fol.	Description	Sample No.	ASSAY Sample	Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
22	23	wy	d gnish gy slt						slt	m/sm				10
23	24	wy	"	↓					"	sm/m				5
24	25	wy	"	↑					"	"	tc py in q			15
25	26	wy	"	381122 Au 0.12 As 890					"	"	tc py, tc asp	mn stn of slt		40
26	27	wy	"						"	"	mod py, tc asp in mn mn py, tc asp			70
27	28	sy	med d gy slt/sh	↓					slt/sh	"	"			70
28	29	sy	d gy slt/sh	↑					"	"	tc py			5
29	30	sy	d gnish gy slt >> d gy slt/sh	381123 Au 0.03 As 60					slt/slt/sh					
30	31	sy	d gy slt/sh						"					
31	32	sy	"	↓					"					
32	33	wy/sy	d gy slt/sh << d gnish gy slt	↑					slt/sh/slt					
33	34	wy	" " << "	381124 Au 0.01 As 30					"					
34	35	wy	d gy slt/sh + d gnish gy slt						"	sm/m				5
35	36	my	d gnish gy slt	↓					slt	"				10
36	37	wy	"	↑					"	"				5
37	38	wy	"	381125 Au 0.02 As 100					"	"				tc
38	39	my	"						"	"				tc
39	40	wy	"	↓					"	"	tc asp in q			tc
40	41	wy	"	↑	381519	0.13	1810		"	"	mn asp in q			30
41	42	wy	"	381126 Au 0.38 As 1700	381520	1.35	2400		"	"	mn py, tc asp in q			15
42	43	wy	"		381521	0.19	1430		"	sm	mn py in q	wk stn of slt		5
43	44	wy	"	↓	381522	0.05	290		"	"	"	"		20
44	45	my	gyish bk fg slt	↑					fg slt	"	tc py in q			15
45	46	my	d gy fg slt	381127 Au 0.01 As 140					"	sm/m	tc py			3
46	47	sy	d gy slt/sh						slt/sh	"				3

RESOLUTE RESOURCES LIMITED Hole No. MT7 320309 Sheet 3 of 4

From	To	Fol.	Description	Sample No.	ASSAY Sample №	Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
47	48	sy	d gnish gy slt/sh	↓					slt/sh					
48	49	sy	"	→					"					
49	50	sy	"	381128	Au <0.01 As 50				"					
50	51	sy	"						"					
51	52	sy	"	↓					"					
52	53	sy	"	→					"	sm/m				3
53	54	my	d gnish gy slt	381129	Au 0.02 As 50				slt	"				2
54	55	sy	d gy slt/sh						slt/sh					
55	56	sy	"	↓					"					
56	57	wy	d gnish gy slt/sh	→					"	sm				3
57	58	sy	"	381130	Au 0.03 As 200				"					
58	59	sy	"						"					
59	60	sy	"	↓					"					
60	61	my	d gy slt/sh	→					"					tc
61	62	sy	d gnish gy slt/sh	381131	Au 0.04 As 260				"					
62	63	sy	"						"					
63	64	my	d gnish gy slt	↓					slt	sm	tc py	mn sm of slt		30
64	65	my	"	→					"	sm/m	tc py	"		20
65	66	my	"	381132	Au 0.06 As 180				"	"				15
66	67	wy	"						"					tc
67	68	my	d gy fg slt	↓					fg slt					
68	69	wy	d gnish gy slt	→					slt	sm/m	tc py			40
69	70	my	d gnish gy fg slt	381133	Au 400 As 40				fg slt					
70	71	my	"						"					
71	72	my	"	↓					"					tc

RESOLUTE RESOURCES LIMITED

Hole No. MT7 329510 Sheet 4 of 4

From	To	Fol.	Description	Sample No.	Sample №	ASSAY Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
72	73	my	d gn·ish gy slt	↑					slt	sm/n				1
73	74	my	"	381134 Au 0.02 As 30					"	"	mn py			5
74	75	my	"						"	"	tc py			5
75	76	my	d gnish gy slt + d gy slt/sh	↓					slt/slkish	"	"			1
76	77	my	" "	↑					slt/sh					tc
77	78	my	" "	381135 Au <0.02 As 40					"					tc
78	79	sy	gy·ish blk slt/sh w ld q w sdc lns						"	sm/n	05% py			10
79	80	sy	"	↓					"	"	mn py on fracs surfaces			15
80	81	sy	d gy slt/sh	↑					"					
81	82	sy	d gn·ish gy slt/sh	381136 Au <0.01 As 40					"					
82	83	sy	gn·ish gy slt/sh						"					
83	84	sy	"	↓					"					
84	85													
85	86													
86	87													
87	88													
88	89													
89	90													
90	91													
91	92													
92	93													
93	94													
94	95													
95	96													
96	97													

329511 Sheet 1 of 3

RESOLUTE RESOURCES LIMITED

Hole No.	Co-ordinates	R.L. collar
MT8	5408000mN, 574368mE (AMG)	283 mas.l.

Project	Location	Date	Drill type	Logged by	Azimuth	Incl.
MATHINNA	TOWNSHIP	28th Aug '95	RC	G MacDonald	090°(TN)	-60°

From	To	Fol.	Description	4m composite Sample No.	ASSAY Sample No.	Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
0	1		d ywish bn cg w q frag's	↑									sy	NA
1	2	wy	mod bn and d ywish org cg alt slt w mag q	381137 Au 0.03 As 220					slt				sy	NA
2	3	.	d ywish org slt w ab q						"				sy	NA
3	4	.	"	↓					"	sm			sy	50
4	5		"	↑					"	"			sy	40
5	6	wy	"	381138 Au 0.01 As 140					"	"			sy	tc
6	7	wy	ywish gy and d ywish org slt						"				sy	10
7	8	wy	" "	↓					"				sy	5
8	9	my	d ywish org slt - fg slt	↑					fg slt				sy	5
9	10	my	"	381139 Au <0.01 As 50					"				sy	tc
10	11	my	"						"				sy	tc
11	12	my	gyish ol gn fg slt	↓					"				my	
12	13	my	"	↑					"				my	
13	14	wy	ywish org fg slt	381140 Au 0.02 As 90					"				sy	tc
14	15	wy	gyish ol gn slt						slt	sm			my	5
15	16	wy	"	↓					"	sm/m			wy	5
16	17		d gnish gy slt q in stringers	↑					"	"		mn s.n of slt		20
17	18	wy	d gnish gy fg slt "	381141 Au 0.02 As 120					fg slt	"	tc py in q	"		30
18	19	wy	" "						"	"	"	"		10
19	20		d gnish gy slt "	↓					slt	"	"	"		40
20	21		" "	↑ 381142 Au 0.09 As 180					"	"	"	"		50
21	22		" "						"	m/sm	"	"		70

RESOLUTE RESOURCES LIMITED — Hole No. MT8 — 329512 — Sheet 2 of 3

From	To	Fol.	Description	Sample No.	ASSAY Sample No.	Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (Bof Ox)	%q
22	23	wy	d grish gy slt						slt	sn/m	tc py in q	mn sin of slt		10
23	24	wy	"	↓					"	"	"	"		70
24	25	wy	"	↑					"	"	"	mod sin of slt		50
25	26	wy	"	381143		Au 0.13	As 210		"	"	"	mn sin of slt		60
26	27	wy	"						"	"	"	"		70
27	28	wy	"	↓					"	"	"	"		25
28	29	my	grish bk fg slt	↑					fg slt	"	"			5
29	30	my	"	381144		Au 0.06	As 70		"	"				10
30	31	wy	d grish gy slt						slt	"		mn sin of slt		15
31	32	wy	"	↓					"	m/sm	tc py in q	"		60
32	33	my	grish bk fg slt	↑					fg slt	sm/m	"	"		3
33	34	wy	d grish gy slt	381145		Au 0.03	As 45		slt	"		mn sin of slt		tc
34	35	wy	"						"	"	tc py in q	"		10
35	36	wy	"	↓					"	"	"	str sin of slt		15
36	37	wy	"	↑					"	"	"	mn sin of slt		5
37	38	wy	"	381146		Au 0.16	As 440		"	"	"	"		5
38	39	wy	"						"	"	"	"		70
39	40	wy	"	↓					"	"	"	"		60
40	41	wy	"	↑					"	"				3
41	42	wy	"	381147		Au 0.01	As 20		"	"				3
42	43	wy	"						"	"				5
43	44	wy	"	↓					"	"				5
44	45	wy	"	↑					"	"	tc py in q			3
45	46	wy	"	381148		Au 0.01	As 50		"	"	"			2
46	47		"						"	"	"	mn sin of slt		40

RESOLUTE RESOURCES LIMITED Hole No. MT8 329513 Sheet 3 of 3

From	To	Fol.	Description	Sample No.	ASSAY Sample No.	Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (Bof Ox)	%q
47	48	wy	d grish gy slt q as stringers	↓					slt	sm/m	tc py in q			15
48	49	wy	" "	↑					"	"	"	ms sin of slt		5
49	50	wy	" "	381149 Au 0.06 As 30					"	"	"	"		6
50	51	wy	d grish gy fg slt "						fg slt	"	"			5
51	52	wy	d grish gy slt "	↓					slt	"	"	ms sin of slt		10
52	53	wy	" "	↑					"	"	"	"		5
53	54	wy	" "	381150 Au <0.01 As <10					"	"	"	"		10
54	55	wy	" "						"	mpy	tc alp in pm	"		10
55	56	wy	" "	↓					"	"		"		1
56	57		" "	↑					"	"	tc py in q	"		70
57	58		" "	381151 Au <0.01 As <10					"	"	ms py in q	"		40
58	59		" "						"	"	tc py in q	"		5
59	60		" "	↓					"	"				1
60	61	wy	" "	↑					"	"	tc py	ms sin of slt		30
61	62	wy	" "	381152 Au <0.01 As <10					"	"	"			5
62	63	wy	" "	↓					"	"	"			3
63	64													
64	65													
65	66													
66	67													
67	68													
68	69													
69	70													
70	71													
71	72													

329511 Sheet 1 of 4

RESOLUTE RESOURCES LIMITED	Hole No. MT9	Co-ordinates 5408000mN, 574265mE (AMG)	R.L. collar 288 m.a.s.l
Project MATHINNA	Location TOWNSHIP	Date 28th+29th Aug '95	Drill type RC
Logged by G MacDonald	Azimuth 270°(TN)	Incl. -60°	

From	To	Fol.	Description	4m composite Sample No.	Sample No.	ASSAY Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
0	1	wy	d ywish org cy w slt. + frag's	↑					slt				sy	NA
1	2	wy	d ywish org cy alt slt	381153 Au 0.02 As 70					"				sy	NA
2	3	wy	"						"				sy	NA
3	4	my	d ywish org cy alt slt. fg slt.	↓					slt/fg slt				sy	NA
4	5	my	d ywish org cy alt slt + q	↑					"	sm			sy	NA
5	6	my	" + q	381154 Au 0.01 As 40					"	"			sy	NA
6	7	my	d ywish org fg slt						"	1%			sy	5
7	8	my	"	↓					"	sm/m			sy	10
8	9	sy	d gnish gg slt - slt/sh	↑					slt/slt/sh				sy	
9	10	my	d ywish org fg slt	381155 Au 0.01 As 40					fg slt				sy	
10	11	my	"						"				sy	
11	12	my	"	↓					"				sy	
12	13	my	" >> d gnish gg slt/sh	↑					fg slt/slt/sh	sm/m			sy	2
13	14	my	" "	381156 Au 0.01 As 40					"				my	
14	15	my	" "						"				my	
15	16	my	" > d gg slt/sh	↓					"				my	
16	17	sy	d gg slt/sh	⇉					slt/sh				wy	
17	18	sy	"	381157 Au 0.01 As 70					"					
18	19	sy	" + fg slt						slt/sh/fg slt					
19	20	my	" + "	↓					"					
20	21	my	" + "	381158 Au 0.01 As 35					"					tc
21	22	my	" + "						"					

RESOLUTE RESOURCES LIMITED — Hole No. MTQ — 329515 — Sheet 2 of 4

From	To	Fol.	Description	Sample No.	ASSAY Sample№	Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
22	23	sy	med d gy fg slt - slt/sh						fg slt/slt/sh	sm	tc py in q			3
23	24	my	" "	↓					"	"	"			5
24	25	sy	med d gy slt/sh	↑					slt/sh	"				1
25	26	my	med d gy slt/sh >> fg slt	381159 Au 0.01 As 20					slt/sh / fg slt	"				tc
26	27	wy	lt grish gy slt						slt	sm/m				20
27	28	sy	d med d grish gy slt/sh >> grish gy slt	↓					slt/sh / slt	sm				1
28	29	sy	med d grish gy slt/sh	↑					slt/sh / slt	"				1
29	30	wy	med d grish gy slt/sh (faulted contact) + d grish gy slt	381160 Au <0.01 As 60					"	"	mn py in q			20
30	31	my	d grish gy fg slt - slt/sh						fg slt/slt/sh	sm/m				tc
31	32	my	d grish gy fg slt	↓					fg slt	sm	tc py in q			5
32	33	my	" + d grish gy slt/sh	↑					fg slt/slt/sh	"	"			2
33	34	my	grish gy fg slt	381161 Au <0.01 As 130					fg slt	"				3
34	35	wy	"						"	"				10
35	36	my	"	↓					"	"				10
36	37	wy	grish gy slt	↑					slt	sm/m	mn py - pm			50
37	38	wy	"	381162 Au 0.02 As <10					"	"				20
38	39	sy/wy	grish bk slt/sh >> grish gy fg slt						slt/sh / fg slt	"				70
39	40	my	d gy slt/sh + d grish gy fg slt	↓					"	"				2
40	41	my	d grish gy slt	↑					slt	"				10
41	42	my	"	381163 Au <0.01 As 10					"	"				tc
42	43	my	d grish gy fg slt - slt/sh						fg slt/slt/sh					
43	44	my	d grish gy fg slt	↓					fg slt / slt/sh					tc
44	45	my	d grish gy fg slt >> slt/sh	↑										
45	46	my	d grish gy slt/sh	381164 Au 0.06 As 80					slt/sh					
46	47	sy	d grish gy fg slt - slt/sh						fg slt/slt/sh					

RESOLUTE RESOURCES LIMITED Hole No. MT9 329516 Sheet 3 of 4

From	To	Fol.	Description	Sample No.	ASSAY Sample	Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
47	48	sy	d grish gy fg slt - slt/sh	↓					fg slt/slt/sh					
48	49	sy	" slt/sh	↑					slt/sh					
49	50	sy	" fg slt - slt/sh	381165		Au <0.001 As 20			fg slt/slt/sh					
50	51	sy	" "						"					
51	52	my	" "	↓					"					
52	53	my	" "	↑					"					
53	54	my	" slt - fg slt	381166		Au 0.01 As 10			slt/fg slt	sm	tc pg in q			1
54	55	sy	" "						"	sm				1
55	56	my	" fg slt - slt/sh	↓					fg slt/slt/sh					
56	57	sy	" fg slt > slt/sh	↑					"	sm	tc pg in q			2
57	58	my	" slt - slt/sh	381167		Au <0.001 As 20			slt/slt/sh					
58	59	sy	" fg slt - slt/sh						fg slt/slt/sh	sm	tc pg in q			2
59	60	sy	" slt sh > fg slt	↓					"					
60	61	sy	" fg slt	↑					fg slt					
61	62	my	" "	381168		Au <0.001 As <10			"					
62	63	my	" fg slt + slt/sh						fg slt/slt/sh					
63	64	sy	" " "	↓					"					
64	65	sy	" fg slt > slt/sh	↑					"					
65	66	sy	" fg slt + slt/sh	381169		Au 0.03 As 200			"	sm	tc pg in q			2
66	67	sy	" " "						"	"	"			2
67	68	sy	" " "	↓					"					
68	69	my	" fg slt	↑					fg slt	sm				1
69	70	my	" slt	381170		Au 0.01 As 10			slt	"	tc pg in q			3
70	71	my	" "						"	"	"			8
71	72	my	" "	↓					"					

RESOLUTE RESOURCES LIMITED Hole No. MT9 320517 Sheet 4 of 4

From	To	Fol.	Description	Sample No.	ASSAY Sample№	Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
72	73	my	d grish gy fg slt - slt/sh	↑					fg slt / slt/sh					
73	74	my	fg slt	3611 71 Au 0.01 As <10					fg slt		tr py in q	mn stn of slt		1
74	75	my	d grish gy - d gy slt						slt		"	"		2
75	76	my	" "						"			"		1
76	77	sy	d grish gy fg slt - slt/sh	↓					fg slt / slt/sh					tr
77	78													
78	79													
79	80													
80	81													
81	82													
82	83													
83	84													
84	85													
85	86													
86	87													
87	88													
88	89													
89	90													
90	91													
91	92													
92	93													
93	94													
94	95													
95	96													
96	97													

329518 Sheet 1 of 4

RESOLUTE RESOURCES LIMITED

Hole No. MT10 | Co-ordinates 5407985 mN, 574188 mE (AMG) | R.L. collar 291 m.a.s.l

Project MATHINNA | Location TOWNSHIP | Date 29th Aug '95 | Drill type RC | Logged by G MacDonald | Azimuth 090°(TN) | Incl. -60°

From	To	Fol.	Description	ASSAY Sample No.	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
0	1		d ywish org cy w ab q frag'	↑			Sm/m			sy	NA
1	2	wy	d ywish org cy alt slt w mn q frag'	38172 Au 0.03 As 50		slt	"			sy	NA
2	3	wy	" w ab q frag'			"	"			sy	NA
3	4	wy	" w tc q frag'	↓		"	"			sy	NA
4	5	wy	d ywish org slt	↑		"				sy	tc
5	6	wy	"	38173 Au 0.01 As 80		"				sy	tc
6	7	wy	d ywish org fg slt			fg slt				sy	1
7	8	wy	"	↓		"				sy	
8	9	wy	mod ywish bn fg slt	↑		"	Sm			sy	tc
9	10	my	"	38174 Au 0.01 As 20		"	"			my	2
10	11	~~any~~ my	d gnish gy fg slt			"	Sm/m			~~any~~ my	3
11	12	wy	d gnish gy slt + fg slt	↓		slt/fg slt	"			wy	3
12	13	wy	"	↑		"	"			wy	1
13	14	wy	gnish gy slt	38175 Au 0.01 As 10		slt				wy	
14	15	wy	gnish gy slt			"	m/Sm			my	15
15	16	wy	"	↓		"	Sm/m	tc py in slt		wy	1
16	17	wy	"	↑		"	"			wy	tc
17	18	wy	"	38176 Au 0.01 As 40		"	m+ m/Sm			wy	20
18	19	wy	"			"	m/Sm	no sul in pan.		wy	5
19	20	wy	"	↓		"	Sm	tc py in slt			5
20	21	wy	"	↑ 38177 Au 0.08 As 1300		"	"	mn py in slt			15
21	22	wy	"			"	"	1% py in q + slt			30

RESOLUTE RESOURCES LIMITED Hole No. MT10 329519 Sheet 2 of 4

From	To	Fol.	Description	Sample No.	ASSAY			Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
22	23	wy	gnish gy slt q in stringers						slt	sm/n	1% py, tr asp in q	sin of slt		20
23	24	wy	" "	↓					"	"	mn py in q	"		15
24	25	wy	" "	→					"	"	"	"		20
25	26	wy	" "	381178 Au 0.01 As 80					"	"	1% py + q	"		20
26	27	wy	" "						"	"	05% py in q	"		20
27	28	wy	d gnish gy slt "	↓					"	"	"			15
28	29	my	" "	→					"	"	mn py, tr alp? in mn py in q	mn sin		3
29	30	my	" "	381179 Au <0.01 As 50					"	"	tr py in q	"		10
30	31	my	" "						"	"	mn py in q	"		5
31	32	sy	gnish gy slt/sh	↓					slt/sh					
32	33	sy	"	→					"					
33	34	my	" >> slt	381180 Au 0.02 As 120					slt/slt/slt		mn py in q			3
34	35	sy	gnish gy fg slt						fg slt	sm/n	"			5
35	36	wy	gy ish bk slt	↓					slt	m/sm	0.5% py in q			15
36	37	wy	"	→					"	"	"			5
37	38	wy	d gnish gy slt	381181 Au 0.09 As 200					"	"	"			5
38	39	wy	"						"	"	mn py in q			5
39	40	wy	d gnish gy slt >> slt/sh	↓					slt/slt/sh	"	"			3
40	41	my	d gnish gy slt/sh >> slt	→					slt/sh/slt	"	tr py in q			1
41	42	my	" "	381182 Au 0.01 As 30					"	"				3
42	43	my	gnish gy slt/sh >> slt v fine vnt in slt						"	sm		sin of slt		1
43	44	sy	" "	↓					"	"		"		2
44	45	sy	" "	→					"	"		"		5
45	46	sy	gnish gy slt/sh	381183 Au <0.01 As <10					slt/sh					tc
46	47	sy	d gnish gy slt/sh 5mm q stringers						"	sm				1

RESOLUTE RESOURCES LIMITED Hole No. MT10 329520 Sheet 3 of 4

From	To	Fol.	Description	Sample No.	ASSAY	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
47	48	sy	d gnish gy slt/sh	↓			slt/sh	sm				tc
48	49	sy	" > d gnish gy fg slt	↑			slt/sh/fg slt	sm	tc py in q	ms sin of slt.		3
49	50	sy	" > "	381184 Au <0.01 As 15			"		"			1
50	51	sy	" >> "				"					tc
51	52	sy	" >> "	↓			"					1
52	53	sy	d gnish gy slt/sh	↑			slt/sh					
53	54	sy	"	381185 Au <0.01 As <10			"					
54	55	sy	"				"					
55	56	sy	"	↓			"					
56	57	sy	" > d gnish gy fg slt	↑			slt/sh/fg slt					5
57	58	sy	" >> "	381186 Au <0.01 As <10			"					
58	59	sy	" >> "				"					
59	60	sy	" >> "	↓			"					
60	61	sy	gyish bk slt/sh >> d gnish gy fg slt	↑			slt/sh/fg slt	sm/m				tc
61	62	sy	d gnish gy fg slt >> gyish bk slt/sh	381187 Au <0.01 As <10			fg slt/slt/sh	sm				1
62	63	my	" >> "				"	"				2
63	64	my	" >> "	↓			"	"				tc
64	65	my	" + "	↑			"					
65	66	my	" >> "	381188 Au <0.01 As <10			"	sm/m				tc
66	67	my	d gnish gy fg slt				fg slt	"				2
67	68	my	"	↓			"	"				2
68	69	my	"	↑			"	"	tc py in q			2
69	70	sy	d gnish gy slt/sh >> fg slt	381189 Au <0.01 As <10			slt/sh/fg slt	"	n.			2
70	71	sy	"				"					
71	72	sy	"	↓			"					

RESOLUTE RESOURCES LIMITED — Hole No. MT10 — 329521 — Sheet 4 of 4

From	To	Fol.	Description	Sample No.	ASSAY	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
72	73	sy	d gnish gy slt/sh + fg slt	↑			slt/sh/fg slt					
73	74	sy	d gnish gy fg slt	381190 Au<0.01 As<10			fg slt					
74	75	sy	"				"					
75	76	my	"	↓			"	sm				1
76	77	my	"	↑			"					
77	78	my	d gnish gy slt	381191 Au 0.02 As 60			slt	sm	tc py in v			tc
78	79	my	"	↓			"					tc
79	80											
80	81											
81	82											
82	83											
83	84											
84	85											
85	86											
86	87											
87	88											
88	89											
89	90											
90	91											
91	92											
92	93											
93	94											
94	95											
95	96											
96	97											

329522 Sheet 1 of 4

RESOLUTE RESOURCES LIMITED	Hole No. MT11	Co-ordinates 5407105mN, 574325mE (AMG)	R.L. collar 311 masl
Project MATHINNA / Location CHURCH HILL / Date 30th Aug '95	Drill type RC	Logged by C MacDonald.	Azimuth 270°(TN) / Incl. -50°

From	To	Fol.	Description	4m composite Sample No.	Sample No.	ASSAY Au	As	Ave.	Lith.	Qtz.	Mineralisation	Alteration	Wth. (BofOx)	%q
0	1		d grish org cy w q • slt frags	↑									sy	NA
1	2	sy	d grish org slt/st	381192 Au 0.03 As 20					slt/sh				sy	
2	3	sy	lt ol gy slt/sh						"				my	5
3	4	sy	"	↓					"				my	5
4	5	sy	"	↑					"				my	
5	6	sy	"	381193 Au 0.01 As 10					"				my	
6	7	sy	"						"				my	
7	8	sy	"	↓					"				my	
8	9	sy	"	↑					"				my	
9	10	sy	"	381194 Au 0.01 As 20					"				my	
10	11	sy	"						"				my	
11	12	sy	"	↓					"				my	
12	13	sy	lt ol gy r mod lt gy slt/sh	↑					"				my	
13	14	sy	"	381195 Au <0.01 As <10					"				my	
14	15	sy	"						"				mm	
15	16	sy	"	↓					"				my	
16	17	sy	"	↑					"				my	
17	18	sy	"	381196 Au <0.01 As <10					"				wy	
18	19	sy	"						"				wy	
19	20	sy	mod gy slt/sh	↓					"					
20	21	sy	"	381197 → Au <0.01 As <10					"					
21	22	sy	"						"					

RESOLUTE RESOURCES LIMITED — Hole No. MT11 — 329623 — Sheet 2 of 4

From	To	Fol.	Description	Sample No.	Sample №	ASSAY Au	ASSAY As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
22	23	Sy	med gy slt/sh						slt/sh					
23	24	Sy	"	↓					"					
24	25	Sy	" stringer q	↑					"	sm/n	tc py in q			15
25	26	Sy	med d gy slt/sh	381198		Au <0.01	As 20		"	"				5
26	27	Sy	"						"					tc
27	28	Sy	"	↓					"					
28	29	Sy	"	↑					"		mn py in q			5
29	30	Sy	"	381199		Au <0.01	As 20		"		tc py in q			3
30	31	Sy	"						"					tc
31	32	Sy	" stringer q	↓					"		mn py in pm tc py in q	mn sn of slt		5
32	33	Sy	" "	↑					"		mn py on frac'			3
33	34	Sy	" "	381200		Au <0.01	As 10		"		"			3
34	35	Sy	"						"					1
35	36	Sy	"	↓					"					
36	37	Sy	~~med~~ d gy fg slt	↑					fg slt					
37	38	Sy	"	381201		Au <0.01	As <10		"					
38	39	Sy	" stringer q						"	sm/n				15
39	40	Sy	" "	↓					"	"	0.5% py in slt			15
40	41	Sy	d gy fg slt → gy ish bk slt/sh "	↑					fg slt / slt/sh	"	"			8
41	42	Sy	" " "	381202		Au <0.01	As 10		"	"	mn py in slt			20
42	43	Sy	gy ish bk slt/sh "						slt/sh		"			5
43	44	Sy	"	↓					"		tc py in slt			
44	45	Sy	"	↑					"		"			
45	46	Sy	"	381203		Au <0.01	As <10		"		"			
46	47	Sy	"						"		mn py in slt+q			5

RESOLUTE RESOURCES LIMITED Hole No. MT11 329524 Sheet 3 of 4

From	To	Fol.	Description	Sample No.	Sample No.	ASSAY Au	ASSAY As	ASSAY Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
47	48	Sy	gy:sh bk slt/sh	↓					slt/sh	Sm/w	mn py in slt+q			3
48	49	Sy	d gn sh gy slt/sh	↑					"	"	"			5
49	50	Sy	gy:sh bk >> d gn:sh gy slt/sh	381204	<.001	<10			"	"	0.5% py in slt+q			3
50	51	Sy	gy:sh bk slt/sh						"		mn py in slt			tc
51	52	Sy	"	↓					"		"			tc
52	53	Sy	gy:sh bk slt/sh + d gy:sh gy slt/sh	↑					"		tc py			tc
53	54	Sy	d gn sh gy >> gy:sh bk slt/sh	381205	<.001	10			"		"			tc
54	55	Sy	d gn:sh gy + gy:sh bk slt/sh						"		0.5% py in bk slt			tc
55	56	Sy	" "	↓					"	Sm/w	"			15
56	57	Sy	d gy:sh gy slt/sh	↑					"	"				3
57	58	Sy	d gn:sh gy >> gy:sh bk slt/sh	381206	<.001	<10			"	"				5
58	59	Sy	gn:sh bk slt/sh						"	"				5
59	60	Sy	"	↓					"	m/sm	mod py in fm tc py on frac surfaces			50
60	61	Sy	d gn:sh gy slt/sh	↑					"	Sm/w	tc py in q			3
61	62	Sy	"	381207	<.001	<10			"	"	"			15
62	63	Sy	"						"	"	"			2
63	64	Sy	"	↓					"		"			
64	65	Sy	"	↑					"	Sm/w	"			10
65	66	Sy	"	381208	<.001	<10			"	"				2
66	67	Sy	"						"	"				2
67	68	Sy	"	↓					"	"				2
68	69	Sy	"	↑					"	"	tc py on frac surface			1
69	70	Sy	"	381209	<.001	<10			"					tc
70	71	Sy	"						"					
71	72	Sy	"	↓					"					1

RESOLUTE RESOURCES LIMITED Hole No. MT11 329525 Sheet 4 of 4

From	To	Fol.	Description	Sample No.	ASSAY Sample №	Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
72	73	Sy	d gn.sh gy sltst/st	↑					sltst/st		tc py			2
73	74	Sy	"	38 1210 Au <0.01 As 10					"					2
74	75	Sy	"						"					1
75	76	Sy	"	↓					"					1
76	77	Sy	"	↑					"					1
77	78	Sy	"	38 1211 Au <0.01 As <10					"					1
78	79	Sy	"						"		tc py			5
79	80	Sy	"	↓					"					1
80	81	Sy	"	↑					"					2
81	82	Sy	"						"					1
82	83	Sy	"	38 1212 Au <0.01 As <10					"					tc
83	84	Sy	"						"					
84	85	Sy	"	↓					"					
85	86													
86	87													
87	88													
88	89													
89	90													
90	91													
91	92													
92	93													
93	94													
94	95													
95	96													
96	97													

Sheet 1 of 4

RESOLUTE RESOURCES LIMITED	Hole No. MT12	Co-ordinates 5407585 mN, 574365 mE (AMG)	R.L. collar 310 m a.s.l
Project MATHINNA. / Location CHURCH HILL / Date 30th & 31st Aug '95	Drill type RC	Logged by G MacDonald.	Azimuth 270° (TN) / Incl. -50°

From	To	Fol.	Description	4m composite Sample No.	ASSAY Sample No.	Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
0	1		d ywish org aft slt w q frags	↑									Sy	NA
1	2		d ywish org fg slt	381213	Au 0.01 As 250				slt	Sm/a			Sy	NA
2	3	wy	"						"	"			Sy	NA
3	4	wy	d ywish org slt	↓					"	"			Sy	5
4	5	wy	"	↑					"	"			Sy	2
5	6	wy	d ywish org fg slt	381214	Au 0.01 As 60				fg slt				Sy	
6	7	wy	"						"	Sm/a			Sy	5
7	8	Sy	"	↓					"	"			Sy	2
8	9	Sy	"	↑					"				Sy	
9	10	Sy	"	381215	Au 0.01 As 120				"	Sm/a			Sy	2
10	11	wy	d ywish + lt gnish gy slt						slt	"			Sy	2
11	12	wy	" "	↓					"	"			Sy	15
12	13	wy	" "	↑					"	"			Sy	10
13	14	wy	" "	381216	Au <0.01 As 40				"	"			Sy	3
14	15	wy	" "						"	"			Sy	1
15	16	wy	" "	↓					"	"			Sy	5
16	17	wy	lt ol gy slt	↑					"	"			My	3
17	18	My	"	381217	Au 0.01 As 60				"	"	asp + blebby py z		My	3
18	19	My	"						"	"			My	1
19	20	My	"	↓					"	"			My	10
20	21	My	"	↑	Au 0.06				"	"			My	15
21	22	My	"	381218	As 110				"	"			Mg	8

RESOLUTE RESOURCES LIMITED

Hole No. MT12 329527 Sheet 2 of 4

From	To	Fol.	Description	Sample No.	ASSAY Sample№	Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
22	23	my	lt ol gy slt	↓					slt	m/sm			my	50
23	24	my	"	↓					"	"			my	3
24	25	my	" + med gy fg slt	→					fg slt				wy	
25	26	my	" "	381219	Au <0.01	As 30			"				wy	
26	27	my	lt ol gy slt						slt				my	5
27	28	sy	lt oligy fg slt	↓					fg slt				my	
28	29	sy	med gy slt/sh	→					slt/sh				wy	
29	30	sy	"	381220	Au <0.01	As 30			"				wy	
30	31	sy	"						"				wy	
31	32	sy	lt ol gy fg slt	↓					fg slt				my	
32	33	sy	med d gy slt/sh	→					slt/sh				wy	
33	34	my	"	381221	Au <0.01	As <10			"				wy	
34	35	my	lt ol gy fg slt						fg slt				wy	
35	36	my	med d gy slt/sh	↓					slt/sh	sm/m			wy	5
36	37	my	d gy slt/sh	→					"	"			wy	3
37	38	my	lt ol gy- fg slt	381222	Au <0.01	As 20			fg slt	"			my	20
38	39	my	d gy slt/sh						slt/sh					
39	40	my	med d gy slt/sh	↓					"					
40	41	my	"	→					"					
41	42	my	"	381223	Au <0.01	As 10			"					
42	43	my	"						"					
43	44	my	"	↓					"					
44	45	my	"	→					"					
45	46	sy	"	381224	Au <0.01	As 20			"					
46	47	sy	"						"					

RESOLUTE RESOURCES LIMITED Hole No. MT12 320528 Sheet 3 of 4

From	To	Fol.	Description	Sample No.	ASSAY Sample№	Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
47	48	my	d gy slt/sh	↓					slt/sL					
48	49	my	"	↑					"					
49	50	my	d gy fg slt Stringer q	38[illegible]25 Au <0.01 As 20					fg slt	sm/n	tc dsd py	v mn s.n of slt		3
50	51	my	d grish gy + d gy fg slt "						"	n		"		3
51	52	my	d grish gy fg slt. "	↓					"	n	tc dsd py	mn s.n of slt		3
52	53	my	" "	↑					"	n	"	"		8
53	54	my	" "	381226 Au <0.01 As 20					"	n	"			3
54	55	my	"						"					tc
55	56	my	" stringer q	↓					"	sm/n	tc py			2
56	57	my	d grish gy slt "	↑					slt	n				2
57	58	my	" "	381227 Au <0.01 As <10					"	n				1
58	59	my	" "						"	n				2
59	60	my	" "	↓					"	n		mn s.n of slt		8
60	61	sy	grish bk fg slt "	↑					fg slt	n		v mn s.n of slt		10
61	62	sy	" "	381228 Au <0.01 As <10					"	n		"		15
62	63	sy	" "						"	n		"		5
63	64	my	d grish gy slt "	↓					slL	n	tc py inq			2
64	65	my	" "	→					"	n				1
65	66	my	" "	381229 Au <0.01 As <10					"	n				tc
66	67	my	" "						"	n	tc py			1
67	68	my	" "	↓					"	n				1
68	69	my	" "	→					"	n	tc py			2
69	70	wy	" "	381230 Au <0.01 As 10					"	n	"			5
70	71	my	" "						"	n	"			5
71	72	wy	" "	↓					"	n	"	v mn s.n of slt		1

RESOLUTE RESOURCES LIMITED — Hole No. MT12 — 329529 — Sheet 4 of 4

From	To	Fol.	Description	Sample No.	ASSAY Sample №	Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (Bof Ox)	%q
72	73	wy	d gn sh gy slt	↑					slt	sm	tc py	v mn sm of slt		1
73	74	wy	"	381231					"	"	"	mn sm of slt		2
74	75	wy	"	Au <0.01					"	"	"	v mn sm of slt		2
75	76	wy	"	As <10					"	"				25
76	77	wy	"	↓					"	"	tc py	mn sm of slt		20
77	78	wy	" > d gy fg slt	↑					slt/fg slt	"	"	"		15
78	79	wy	" > d gy fg slt	381232					"	"	"	"		1
79	80	wy	"	Au <0.01					slt	"		"		1
80	81	wy	" > d gy fg slt	As <10					sh/fg slt	"	tr py	"		3
81	82	wy	"	↓					sh	"		v mn sm of slt		tc
82	83	wy	" + d gy fg slt	↑					slt/fg slt	"		"		1
83	84	wy	"	381233					sh	"	tc py	mn sm of slt		2
84	85	wy	"	Au <0.01					"	"	"	"		2
85	86			As <10										
86	87			↓										
87	88													
88	89													
89	90													
90	91													
91	92													
92	93													
93	94													
94	95													
95	96													
96	97													

[redacted]

32953U Sheet 1 of 4

RESOLUTE RESOURCES LIMITED	Hole No. MT13	Co-ordinates 5407335mN, 574290mE (AMG)	R.L. collar 329 m a.s.l
oject MATHINNA / Location CHURCH HILL / Date 4th Sept '95	Drill type RC	Logged by G Ma. Donald	Azimuth 270°(TN) / Incl. -58°

From	To	Fol.	Description	4m Composite Sample No.	Sample No.	ASSAY Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
0	1	Sy	d ywish org cg aft slt/sh	↑					sll/sl				Sy	NA
1	2	Sy	d ywish org + ywish gy slt/sl.	38[illegible]4 Au 0.07 As 40					"				Sy	NA
2	3	Sy	" "						"	sm			Sy	5
3	4	Sy	" "	↓					"	"			Sy	15
4	5	Sy	" "	↑					"	"			Sy	10
5	6	My	d ywishorg + ywish gy fg slt	38[illegible]35 Au 0.03 As 30					fg slt	sm-fr			Sy	20
6	7	My	" "				stringers q		=	m/sm			Sy	5
7	8	My	d ywish org + ywish gy slt	↓			"		slt	"			Sy	20
8	9	My	d ywish org fg slt	↑					fg slt				Sy	
9	10	My	d ywish org + mod bn slt	38[illegible]36 Au 0.01 As <10					slt				Sy	
10	11	My	d ywish org slt						"				Sy	
11	12	My	"	↓					"				Sy	
12	13	Sy	d ywish org + lt.gn.ish gy fg slt	↑					fg slt	sm-fr			My	1
13	14	Sy	" "	38[illegible]37 Au 0.01 As 10					"	"			My	1
14	15	My	" "						"	"			My	2
15	16	My	d ywish org slt	↓					slt	"			Sy	2
16	17	My	"	↑					"	"			Sy	50
17	18	My	d ywish org slt + lt gn.ish gy slt/sh	38[illegible]38 Au <0.01 As 10					slt/slt/sh	"			My	10
18	19	Sy	" "						"	"			My	5
19	20	My	d ywish org slt	↓					slt				Sy	
20	21	My	mod bn slt > lt gy slt/sh	↑ Au <0.01 As 20					slt/slt/sh	sm/m				2
21	22	My	mod bn slt	36[illegible]39 Au As					slt	"				3

ESOLUTE RESOURCES LIMITED — Hole No. MT13 — 389531 — Sheet 2 of 4

From	To	Fol.	Description	Sample No.	ASSAY Sample Wt	Au	As	Ave.	Lith.	Qtz.	Mineralisation	Alteration	Wth. (BofOx)	%q
22	23	my	d ywish org slt						slt	m/sm		mn sil of slt	Sy	40
23	24	Sy	d ywish org ~ lt ol gy slt/sh	↓					slt/slt/sh	"		"	Sy	5
24	25	my	d ywish org fg slt	↑					fg slt				Sy	
25	26	my	brish gy a lt ol gy slt/sh > slt	381240	Au <0.01				slt/sh/slt	m/sm		mn sil of slt	Sy	2
26	27	my	lt ol gy slt >>> slt/sh		As 20				"				my	tc
27	28	my	lt ol gy slt/sh >> slt	↓					"	sm/m			my	2
28	29	my	lt ol gy slt/sh ofg slt	↑					slt/sh/fg slt				my	
29	30	my	lt ol gy slt/sh << slt	381241	Au <0.01				slt/slt/sh	sm/m			my	3
30	31	my	ywish gy fg slt		As 20				fg slt	"			my	70
31	32	my	d ywish org slt	↓					slt	"		mn sil of slt	my	40
32	33	my	"	↑					"				my	
33	34	my	"		Au 0.02				"				my	
34	35	Sy	lt ol gy fg slt	381242	As 20				fg slt				my	
35	36	Sy	"	↓					"				my	
36	37	Sy	lt ol gy a gnish gy fg slt	↑					"				my	
37	38	Sy	" "		Au 0.01				"				my	
38	39	Sy	lt ol gy a gnish gy slt/sh	381243	As <10				slt/sh	sm/m			my	1
39	40	Sy	" "	↓					"				my	
40	41	Sy	lt gnish gy slt/sh	↑					"				wy	
41	42	Sy	"		Au <0.01				"				wy	tc
42	43	Sy	"	381244	As 10				"					
43	44	Sy	med gy slt/sh	↓					"	sm/m				3
44	45	Sy	mod d gy > lt gnish gy fg slt	↑					fg slt	"		mn sil of slt		10
45	46	Sy	lt gnish gy slt/sh	381245	Au 0.11				slt/sh	"		"		5
46	47	Sy	"		As 40				"	"				3

RESOLUTE RESOURCES LIMITED Hole No. MT13 329532 Sheet 3 of 4

From	To	Fol.	Description	Sample No.	ASSAY Sample No.	Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
47	48	sy	lt grish gy slt/sh	↓					slt/sh	sm/m				2
48	49	sy	"	↑					"	"				1
49	50	sy	"	381246 Au <0.01 As 30					"	"				1
50	51	sy	grish gy slt/sh						"					
51	52	my	grish gy fg slt	↓					fg slt	sm/m				3
52	53	my	lt grish gy slt >> grish gy fg slt	↑		stringer q			slt/fg slt	"				5
53	54	my	lt grish gy slt > d grish gy slt	381247 Au <0.01 As 20		"			slt	"		v mn sn of slt		3
54	55	my	d grish gy fg slt						fg slt					
55	56	sy	d grish gy slt/sh	↓					slt/sh	sm/m				1
56	57	sy	grish gy slt/sh	↑					"					
57	58	sy	grish gy slt/sh >> d grish gy slt/sh	381248 Au <0.01 As 10					"					
58	59	sy	" "						"	sm/m				1
59	60	sy	grish gy slt/sh	↓					"					
60	61	sy	"	↑					"	sm/m				1
61	62	sy	"	381249 Au 0.04 As 20					"					
62	63	sy	d grish gy slt/sh						"	sm/m		v mn sn of slt		3
63	64	sy	lt grish gy - grish gy slt/sh	↓					"					
64	65	sy	" "	↑		stringer q			"	sm/m	tc py	v mn sn of slt		3
65	66	sy	d grish gy - grish gy slt/sh	381250 Au 0.13 As <10		"			"					
66	67	sy	grish gy slt/sh						"	sm/m				5
67	68	sy	"	↓					"	"				2
68	69	sy	d grish gy slt/sh	↑					"	"		v mn sn of slt		1
69	70	sy	grish gy slt/sh	381251 Au 0.04 As <10					"	"	tc py			1
70	71	sy	"						"					
71	72	sy	grish gy - ywish gy slt/sh	↓					"	sm/m		mn sn of slt		3

RESOLUTE RESOURCES LIMITED Hole No. MT13 329533 Sheet 4 of 4

From	To	Fol.	Description	Sample No.	ASSAY Sample No.	Au	As	Ave.	Lith.	Oxide	Mineralisation	Alteration	Wth. (Bof Ox)	%q
72	73	sy	d gnish gy >> ywish gy slt/sh^ sh	↑					gr slt/slt	sm/n		mn stn of slt		1
73	74	sy	" "	381252 Au 0.11 As <10					"			"		
74	75	sy	" "						"	sm/n	tc asp in q	"		3
75	76	sy	d gnish gy > ywish gy fg slt > slt/sh	↓					"	"		"		5
76	77	sy	" "	↑					"	"		"		3
77	78	sy	d gnish gy slt/sh	381253 Au 0.05 As <10					slt/sh					tc
78	79	sy	gnish gy > ywish gy slt/sh						"					
79	80	sy	" > "	↓					"	sm/n		v mn stn of slt		2
80	81	sy	lt gnish gy slt/sh	↑					"	"	tc dsd py in slt	"		1
81	82	sy	"	381254 Au 0.16 As 10					"	"		"		2
82	83	sy	"						"	"	tc py in q			5
83	84	sy	"	↓					"	"				2
84	85	sy	"	↑					"		tc py in slt			
85	86	sy	"	381255 Au 0.03 As 15					"	sm/n				1
86	87	sy	"						"	"	tc dsd py in slt			2
87	88	sy	"	↓					"	"				3
88	89													
89	90													
90	91													
91	92													
92	93													
93	94													
94	95													
95	96													
96	97													

329534 Sheet 1 of 4

RESOLUTE RESOURCES LIMITED			Hole No. MT14	Co-ordinates 5407800mN, 574187mE (AMG)		R.L. collar 310 mas.l
Project MATHINNA	Location TOWNSHIP	Date 5th Sept '95	Drill type RC	Logged by G MacDonald	Azimuth 090°(TN)	Incl. -60°

From	To	Fol.	Description	4m composite Sample No.	ASSAY Sample No.	Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
0	1		d ywish org sy	↑									Sy	NA
1	2		"	381256 Au 0.05 As 70									Sy	NA
2	3	my	"										Sy	NA
3	4	my	d ywish org slt	↓					slt				Sy	NA
4	5	my	"	↑					"				Sy	50
5	6	my	"	381257 Au 0.01 As 60					"				Sy	
6	7	my	"						"				Sy	
7	8	my	"	↓					"				Sy	
8	[redacted]	my	"	↑					"				Sy	
9	10	my	"	381258 Au 0.07 As 70					"				Sy	
10	11	my	"						"				Sy	
11	12	my	"	↓					"				Sy	
12	13	my	"	↑					"				Sy	
13	14	my	"	381259 Au 0.03 As 50					"				Sy	
14	15	my	"						"				Sy	
15	16	my	"	↓					"				Sy	
16	17	my	lt ol gy slt	↑					"				My	
17	18	my	gyish ol slt	381260 Au 0.02 As 30					"				My	
18	19	my	lt ol gy slt						"				My	
19	20	my	"	↓					"				My	
20	21	my	"	↑					"					
21	22	my	med gy slt	381261 Au <0.01 As 60					"					

RESOLUTE RESOURCES LIMITED — Hole No. MT14 — 329535 — Sheet 2 of 4

From	To	Fol.	Description	Sample No.	Sample Nº	ASSAY Au	ASSAY As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
22	23	My	med gy slt						slt					
23	24	Sy	med gy slt + d gy slt/sh	↓					slt / slt/sh					
24	25	Sy	" "	↑					"					
25	26	Sy	" "	381262		Au 0.05	As 40		"					
26	27	Sy	" "						"					
27	28	Sy	" "	↓					"					
28	29	Sy	" "	↑					"					
29	30	Sy	" "	381263		Au 0.01	As 20		"					
30	31	Sy	" "						"					
31	32	Sy	" "	↓					"					
32	33	Sy	" "	↑					"					
33	34	Sy	" "	381264		Au 0.02	As 30		"					
34	35	Sy	" "						"					
35	36	Sy	" "	↓					"					
36	37	Sy	" "	↑					"					
37	38	My	med d gy slt	381265		Au 0.01	As <10		slt					
38	39	My	"						"					
39	40	My	"	↓					"					
40	41	Sy	d gy slt/sh	↑					slt/sh					
41	42	Sy	"	381266		Au 0.01	As 40		"					
42	43	Sy	"						"					
43	44	Sy	"	↓					"					
44	45	Sy	"	↑					"					
45	46	Sy	"	381267		Au 0.01	As 50		"					
46	47	Sy	"						"		tr py			1

RESOLUTE RESOURCES LIMITED Hole No. MT 14 329536 Sheet 3 of 4

From	To	Fol.	Description	Sample No.	ASSAY Sample№	Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
47	48	Sy	d gy slt/sh	↓					slt/sh		tc py in fiss stages			tc
48	49	Sy	"	→					"		tc py			3
49	50	Sy	med d gy slt/sh	381268		Au 0.05	As 60		"					
50	51	Sy	"						"					1
51	52	Sy	"	↓					"					tc
52	53	My	med d gy fg slt	→					fg slt					1
53	54	My	"	381269		Au 0.01	As 50		"	sl	tc py ing	mn s.v. of fg slt		5
54	55	My	med gy slt						slt	"	"	"		8
55	56	My	"	↓					"	"	"	v.m s.v. of fg slt		3
56	57	My	"	→					"	"	"	"		40
57	58	My	gnish gy slt/sh	381270		Au 0.10	As 960		slt/sh	"	"	m s.v. of fg slt		20
58	59	My	"						"	"	mn dsd py	"		20
59	60	My	"	↓					"		tc py	v.m s.v. of fg slt		1
60	61	Sy	lt gnish gy slt/sh	→					"	sl	"	"		5
61	62	Sy	"	381271		Au 0.01	As 80		"	"	"	"		2
62	63	Sy	gnish gy slt/sh						"	"	"	"		10
63	64	Sy	gnish gy slt/sh	↓					"	"	"			2
64	65	Sy	"	→					"		"			tc
65	66	Sy	"	381272		Au <0.01	As 30		"		"	v.m s.v. of fg slt		2
66	67	Sy	"						"			"		1
67	68	Sy	"	↓					"		tc py			1
68	69	Sy	"	→					"	sl	"	v.m s.v. of fg slt		5
69	70	My	d gnish gy fg slt	381273		Au 0.02	As 90		fg slt	"	"	⊕ spotting		15
70	71	Sy	d gnish gy slt/sh						slt/sh	"	"	"		2
71	72	Sy	"	↓					"	"				2

RESOLUTE RESOURCES LIMITED

Hole No. MT14 329537 Sheet 4 of 4

From	To	Fol.	Description	Sample No.	ASSAY Sample№	Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (Bof Ox)	%q
72	73	sy	d gn.sh gy slt/sh	↑					slt/sh	sm/a	tc py			2
73	74	sy	d gn.sh gy >>> lt gn.sh gy slt/sh	38127 4 Au 0.02 As <10					"	"	"	mn s.n of slt/sh		5
74	75	sy	d gn.sh gy slt/sh						"	"	"	"		2
75	76	sy	d gn.sh gy >>> lt gn.sh gy slt/sh	↓					"	"				3
76	77	sy	" > "	↑					"	"				3
77	78	sy	d gn.sh gy slt/sh	38127 5 Au 0.06 As <10					"					
78	79	sy	"	↓					"	"				3
79	80													
80	81													
81	82													
82	83													
83	84													
84	85													
85	86													
86	87													
87	88													
88	89													
89	90													
90	91													
91	92													
92	93													
93	94													
94	95													
95	96													
96	97													

329538 Sheet 1 of 4

RESOLUTE RESOURCES LIMITED	Hole No. MT15	Co-ordinates 5407805mN, 574150mE (AMG)	R.L. collar 309 mASL
Project MATHINNA / Location TOWNSHIP / Date 5th-6th Sept '95	Drill type RC	Logged by GMacDonald/JIkstrums	Azimuth 090°(TN) / Incl. -55°

From	To	Fol.	Description	4m composite Sample No.	Sample №	ASSAY Au	As	Ave.	Lith.	Qtz.	Mineralisation	Alteration	Wth. (BofOx)	%q
0	1	sy	d ywish gy cy alt slt/sh	↑					slt/sh				sy	
1	2	sy	"	381276 Au 0.09 As 60					"				sy	
2	3	sy	"						"				sy	
3	4	sy	d ywish ad lt gnish gy slt/sh	↓					"				my	
4	5	sy	"	↑					"				my	
5	6	sy	"	381277 Au 0.02 As <10					"				my	
6	7	sy	"						"				my	
7	8	sy	"	↓					"				my	
8	9	sy	"	↑					"				my	
9	10	sy	"	381278 Au 0.02 As 90					"				sy	
10	11	sy	"						"				my	
11	12	sy	"	↓					"				my	
12	13	sy	"	→					"				my	
13	14	sy	lt ol gy > lt gnish gy slt/sh	381279 Au 0.07 As 130					"				my	
14	15	sy	" "						"				my	
15	16	sy	lt gy > d gy slt/sh	↓					"				my	
16	17	sy	" "	→					"	sm/tr			my	
17	18	sy	ywish gy > lt gy slt/sh	381280 Au 0.11 As 1100					"	"			my	2
18	19	sy	" "						"	"			my	10
19	20	sy	" "	↓					"	"			my	5
20	21	sy	lt ol gy > red lt gy slt/sh	→					"					3
21	22	sy	" "	381281 Au 0.02 As 100					"					tr

RESOLUTE RESOURCES LIMITED — Hole No. MT15 — 380539 — Sheet 2 of 4

From	To	Fol.	Description	Sample No.	Sample Wt	ASSAY Au	ASSAY As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (Bof Ox)	%q
22	23	Sy	lt ol gy + med lt gy slt/sh						slt/sh					
23	24	Sy	" "	↓					"	Sm/n				2
24	25	Sy	" "	→					"					
25	26	Sy	med lt gy slt/sh	381282		Au 0.04	As 90		"					
26	27	Sy	"						"					
27	28	Sy	"	↓					"					
28	29	Sy	"	→					"					
29	30	Sy	"	381283		Au 0.03	As 80		"					
30	31	Sy	med d gy slt/sh						"					
31	32	Sy	med lt gy fg slt	↓					fg slt	Sm/n				2
32	33	Sy	d grish gy slt	→					slt	n	1% asp in q			15
33	34	Sy	"	381284		Au 0.14	As 1730		"	n	tc asp			3
34	35	Sy	"						"	n	"			1
35	36	Sy	"	↓					"	n				tc
36	37	Sy	"	→					"	n				tc
37	38	Sy	"	381285		Au 0.01	As 70		"	Sm.n				2
38	39	Sy	"						"	n	tc py in q			3
39	40	Sy	"	↓					"					
40	41	Sy	med lt gy slt	→					"	Sm/n				3
41	42	Sy	"	381286		Au 0.01	As <10		"					
42	43	Sy	"						"	Sm/n	m asp py in q			10
43	44	Sy	grish gy slt/sh	↓					slt/sh	n				1
44	45	Sy	"	→					"	n				2
45	46	Sy	"	381287		Au 0.01	As <10		"	n				1
46	47	Sy	d grish gy slt/sh						"					

RESOLUTE RESOURCES LIMITED Hole No. MT15 329540 Sheet 3 of 4

From	To	Fol.	Description	Sample No.	ASSAY Sample Au	ASSAY As	ASSAY Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
47	48	Sy	d grish gy slt/sh	↓				slt/sh					
48	49	Sy	"	↑				"					
49	50	Sy	"	381288 Au <0.01 As <10				"					
50	51	Sy	"					"	sm/-				1
51	52	Sy	"	↓				"	"				1
52	53	Sy	"	↑				"	"				1
53	54	Sy	"	381289 Au 0.01 As 10				"					
54	55	Sy	"					"					
55	56	Sy	"	↓				"					
56	57	Sy	d gy slt/sh	↑				"					
57	58	Sy	d grish gy slt/sh	381290 Au 0.02 As <10				"					
58	59	Sy	gy ish bk slt/sh					"					
59	60	Sy	gy ish bk fg slt	↓				fg slt					
60	61	Sy	"	↑				"					
61	62	Sy	"	381291 Au 0.01 As <10				"					
62	63	Sy	"					"		tc py	s.n of slt		tc
63	64	Sy	d grish gy slt	↓				slt		"			"
64	65	Sy	"	→				"		"			"
65	66	Sy	"	381292 Au 0.04 As <10				"		"			"
66	67	Sy	"					"		"			"
67	68	Sy	"	↓				"		"			1-2
68	69	Sy	"	↑				"		"			"
69	70	Sy	"	381293 Au 0.06 As <10				"		"			"
70	71	Sy	"					"					1
71	72	Sy	"	↓				"					1

RESOLUTE RESOURCES LIMITED — Hole No. MT15 — 329541 — Sheet 4 of 4

From	To	Fol.	Description	Sample No.	Sample Nº	ASSAY Au	ASSAY As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
72	73	Sy	d grish gy slt	↑	381523	0.03	<10		slt		tc py	s.a of slt		
73	74	Sy	"	381294 Au 0.12 As 30	381524	0.16	50		"	sm/m		"		4-5
74	75	Sy	grish bk fg slt	↓ As	381525	0.07	60		fg slt	"		"		"
75	76	Sy	d grish gy slt	↓	381526	0.50	10		slt	"	tc - 2% py, tr asp	"		4-6
76	77	Sy	"	↑	381527	0.77	40		"	"	"	"		"
77	78	Sy	"	381295 Au 0.14 As 75	381528	0.37	35		"	"	"	"		"
78	79	Sy	"		381529	0.21	55		"	"	"	"		"
79	80	Sy	"	↓	381530	0.16	160		"	"	"	"		"
80	81	Sy	"	→					"	"	"	"		"
81	82	Sy	"	381296 Au 0.03 As 40					"	"	"	"		"
82	83	Sy	"						"	"	"	"		"
83	84	Sy	"	↓					"	sm/m	"	"		2-3
84	85	Sy	d gy fg slt	↑					fg slt	"	"	"		"
85	86	Sy	gy ish bk slt/sh	381297 Au 0.02 As 40					slt/sh	"	tc py	"		tc-1
86	87	Sy	grish bk slt/sh	↓					"		"	"		"
87	88	Sy	d grish gy slt/sh	↓					"		"	"		"
88	89	Sy	d grish gy slt	↑					slt	sm/m	1-3% py tc asp	"		5-8
89	90	Sy	"	381298 Au 0.08 As 180					"	"	"	"		"
90	91	Sy	"						"	"	"	"		"
91	92	Sy	lt grish gy >> d gy slt/sh	↓					slt/sh		tc py			tc
92	93	Sy	d gy slt/sh	→					"		"			"
93	94	Sy	lt grish gy slt/sh						"		"			"
94	95	Sy	"	381299 Au 0.15 As 190					"		"			"
95	96	Sy	"						"		"			"
96	97	Sy	"	↓					"		"			"

329542 Sheet 1 of 4

RESOLUTE RESOURCES LIMITED	Hole No. MT16	Co-ordinates 5407815mN, 574115mE (AMG)	R.L. collar 305m a.s.l
Project MATHINNA / Location TOWNSHIP. / Date 6th Sept '95	Drill type RC	Logged by J Ikstrums/G MacDonald	Azimuth 090°(TN) / Incl. -55°

From	To	Fol.	Description	4m composite Sample No.	ASSAY Sample No.	Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%
0	1		d ywish org cy	↑									sy	
1	2	sy	d ywish org >> lt grish gy slt/sh	381800 Au 0.06 As 60					slt/sh				sy	
2	3	sy	"						"				sy	
3	4	sy	"	↓					"				sy	
4	5	sy	"	→					"				my	
5	6	my	d ywish org > lt grish gy fg slt	381801 Au 0.04 As 70					fg slt		tc py, tc asp		my	3
6	7	my	d ywish org fg slt						"				my	
7	8	sy	lt grish gy slt/sh	↓					slt/sh				my	
8	9	sy	"	→					"				my	
9	10	sy	d ywish org slt/sh	381802 Au 0.04 As 205					"				my	8
10	11	sy	" > lt grish gy slt/sh						"				my	
11	12	sy	" "	↓					"				my	
12	13	sy	" "	→					"				my	
13	14	sy	" "	381803 Au 0.02 As 90					"				my	
14	15	sy	lt grish gy slt/sh						"				my	
15	16	sy	d ywish org slt/sh.	↓					"		limonite		my	30
16	17	sy	" > lt grish gy slt/sh	→					"				my	
17	18	sy	" "	381804 Au 0.01 As 50					"				my	
18	19	sy	" "						"				my	
19	20	sy	grish gy slt/sh	↓					"				my	10
20	21	my	grish gy fg slt	381805 → Au 0.06 As 60					fg slt				my	
21	22	my	d ywish org > grish gy fg slt						"					

RESOLUTE RESOURCES LIMITED — Hole No. MT10 — 329543 — Sheet 5 of 4

From	To	Fol.	Description	Sample No.	Sample №	ASSAY Au	ASSAY As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
22	23	my	d ywish org + gnish gy fg slt						fg slt					
23	24	my	" "	↓					"					15
24	25	my	gnish gy slt/sh	↑					slt/sh					
25	26	sy	gnish gy + d gy slt/sh	381306	Au 0.05	As 40			"					
26	27	sy	" "						"					
27	28		gnish gy slt	↓					slt		3% asp, 1% py			80
28	29	.	"	↑					"		tc py			2
29	30	my	"	381307	Au 0.03	As 45			"		"			2
30	31	wy	"						"		3% asp, 1% py			5
31	32		"	↓					"					60
32	33	my	"	↑					"					20
33	34	my	gnish gy fg slt + slt/sh	381308	Au 0.03	As 20			slt/sh		tc py			2
34	35	sy	" "						"		"			1
35	36	my	d gnish gy slt	↓					slt		"			1
36	37	my	"	↑					"					
37	38	my	"	381309	Au 0.10	As <10			"					
38	39	sy	d gy fg slt						fg slt		tc py			tc
39	40	sy	"	↓					"					
40	41	sy	d gnish gy fg slt	↑					"		tc py			2
41	42	sy	"	381310	Au 0.01	As <10			"					
42	43	sy	"						"					
43	44	sy	"	↓					"					
44	45	sy	"	↑					"					
45	46	sy	"	381311	Au 0.04	As <10			"		tc py			3
46	47	sy	"						"					tc

RESOLUTE RESOURCES LIMITED Hole No. MT16 329544 Sheet 3 of 4

From	To	Fol.	Description	Sample No.	Sample No.	Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
47	48	Sy	d grish gy fg slt	↓					fg slt		tc py			tc-1
48	49	Sy	"	→					"		"			"
49	50	Sy	"	381312	Au 0.01		As <10		"		"			"
50	51	Sy	"						"		"			"
51	52	Sy	"	↓					"		"			"
52	53	Wy	d grish gy slt	→					slt		"			"
53	54	Wy	"	381313	Au 0.01		As 115		"		"			"
54	55	My	d grish gy fg slt > d gy slt/sh	381314	Au 0.01		As 50		fg slt / slt/sh		"			"
55	56	My	" "	↓					"		"			
56	57	Wy	d grish gy slt	→					slt		"			2
57	58	My	"						"		"			tc
58	59	Wy	"						"		"			2
59	60	Wy	"	↓					"		"			tc
60	61	My	"	→					"		"			
61	62	My	"	381315	Au 0.02		As <10		"		"			
62	63	Sy	d grish gy slt/sh						slt/sh		"			
63	64	Sy	"	↓					"		"			
64	65	My	d grish gy slt >> d gy slt/sh	→					slt / slt/sh		"			
65	66	My	d grish gy slt	381316	Au 0.01		As <10		slt					
66	67	My	"						"					
67	68	Sy	"	↓					"					
68	69	Sy	d grish gy fg slt	↑					fg slt					
69	70	My	"	381317	Au 0.01		As 10		"					
70	71	My	d grish gy slt >> d grish gy slt/sh						slt / slt/sh					
71	72	My	"	↓					"					

RESOLUTE RESOURCES LIMITED Hole No. MT16 329545 Sheet 4 of 4

From	To	Fol.	Description	Sample No.	Sample №	ASSAY Au	ASSAY As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
72	73	my	d gn·sh gy slt - d gy slt/sh	↑					slt/slt/sh					
73	74	my	d gn·sh gy slt	381318 Au 0.01 As <10					slt					
74	75	my	"						"					
75	76	my	"	↓					"					
76	77	sy	"	→					"					
77	78	sy	d gn·sh gy fg slt	381319 Au 0.05 As 10					fg slt					
78	79	sy	"	↓					"					
79	80													
80	81													
81	82													
82	83													
83	84													
84	85													
85	86													
86	87													
87	88													
88	89													
89	90													
90	91													
91	92													
92	93													
93	94													
94	95													
95	96													
96	97													

329546 Sheet 1 of 4

RESOLUTE RESOURCES LIMITED

Hole No. MT18 | Co-ordinates 5407905mN, 574176mE (AMG) | R.L. collar 303m a.s.l.

Project MATHINNA | Location TOWNSHIP | Date | Drill type RC | Logged by G MacDonald | Azimuth 090° (TN) | Incl. -55°

From	To	FoL	Description	4m composite Sample No.	ASSAY Sample No.	Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
0	1		d ywish org cy	↑									sy	NA
1	2	my	d ywish org slt/sh	381320 Au 0.03 As 160					slt/sh				sy	NA
2	3	my	"						"				sy	
3	4	my	d ywish org fg slt	↓					fg slt	sm/m			sy	1
4	5	wy	"	↑					"				sy	
5	6		"	381321 Au 0.02 As 350					"	sm/m			sy	2
6	7		"						"	"			sy	80
7	8	wy	"	↓					"				sy	tc
8	9		d ywish org slt	↑					slt				sy	
9	10	wy	d ywish org fg slt	381322 Au 0.01 As 250					fg slt				sy	
10	11	my	"						"	sm/m			sy	1
11	12	my	lt ol gy fg slt	↓					"				my	
12	13	my	"	↑					"				my	
13	14	sy	" >> med bluish gy slt/sh	381323 Au 0.02 As 40					"	sm/m			my	1
14	15	sy	" >> "						"			v wl spotting	wy	
15	16	sy	" >> "	↓					"				wy	tc
16	17	sy	lt ol gy fg slt	↑					"	sm/m		cl in q	my	8
17	18	sy	gnish gy fg slt q as stringers 3mm	381324 Au 0.04 As 1160					"	"		fg spotting	wy	5
18	19	my	lt ol gy slt "						slt	"		"	my	15
19	20	my	gnish gy fg slt	↓					fg slt	"	tc pyinq o slt	"		3
20	21	sy	"	381325 Au 0.02 As 60 ↑					"			"		3
21	22	sy	"						"			tcling + msu of slt		2

RESOLUTE RESOURCES LIMITED Hole No. MT18 329547 Sheet 2 of 4

From	To	Fol.	Description	Sample No.	ASSAY Sample №	Au	As	Ave.	Lith.	Qtz=	Mineralisation	Alteration	Wth. (BofOx)	%q
22	23	sy	d gnish gy slt + fg slt						slt/fg slt	sm/m	tc py in q	spotting, cl in q mn sin of slt		2
23	24	my	d gnish gy + gyish bk fg slt	↓					fg slt	"				
24	25	my	d gnish gy slt	↑					slt	"	0.5% py in q	cl in q sin of slt		15
25	26	my	"	381326 Au 0.03 As 70					"	"	tc asp, tc py in q	"		20
26	27	my	"						"	"	tc py in q			5
27	28	my	"	↓					"	"				3
28	29	my/sy	90% " + 10% gyish bk slt/sh	↑					slt/slt/sh	"	tc py	v mn sin		1
29	30	my/sy	" "	381327 Au 0.01 As 10					"	"	"			2
30	31	my/sy	10% " + 90% "						"	"	"	v mn sin		2
31	32	my/sy	50% " + 50% "	↓					"	"	mn py in q - gn slt	" , cl in q		5
32	33	my	d gnish gy slt	↑					slt	"	tc py	" "		5
33	34	my/sy	20% d gnish gy slt + 80% gyish bk slt/sh	381328 Au 0.02 As 10					slt/slt/sh	"				2
34	35	my/sy	60% d gnish gy fg slt + 40% "						fg slt/slt/sh	"				1
35	36	sy	50% " + 50% "	↓					"	"				
36	37	sy	d gnish gy slt/sh	↑					slt/sh	"				
37	38	sy	"	381329 Au 0.02 As 10					"	"				1
38	39	my	d gnish gy fg slt						fg slt	"				
39	40	my	"	↓					"	"				2
40	41	my	"	↑					"	"	tc py in q			5
41	42	my/sy	40% " + 60% gyish bk slt/sh	381330 Au 0.01 As <10					fg slt/slt/sh	"				
42	43	my/sy	" " " "						"	"	tc py in slt			
43	44	my/sy	80% " + 20% "	↓					"	"				
44	45	my/sy	50% " + 50% "	↑					"	"				
45	46	my/sy	90% d gnish gy slt + 10% "	381331 Au <001 As <10					slt/slt/sh	"		mn sin of slt		1
46	47	my/sy	50% " + 50% "						"	"				1

RESOLUTE RESOURCES LIMITED Hole No. MT18 329548 Sheet 3 of 4

From	To	Fol.	Description	Sample No.	Sample №	ASSAY Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
47	48	my/sy	10% d grish gy slt + 90% grish bk slt/sh	↓					slt / slt/sh	sm/m				
48	49	my/sy	" " + " "	↑					"	"				2
49	50	my/sy	50% " + 50% "	381332 Au 0.01 As 10		q in	stringers		"	"	tc py in q	v mn sin cl in q		8
50	51	sy	d grish gy fg slt				"		fg slt	"				1
51	52	my/sy	60% d grish gy fg slt + 40% grish bk slt/sh	↓			"		fg slt / slt/sh	"	tc py			3
52	53	my	d grish gy fg slt	↑			"		fg slt	"		v mn sin cl in q		25
53	54	my/sy	40% d grish gy fg slt + 60% grish bk slt/sh	381333 Au 0.02 As 20			"		fg slt / slt/sh	"		"		3
54	55	sy	80% grish gy slt/sh + 20% grish bk slt/sh	381 Au As		v fine q vnlt			slt/sh	"		mn cl per sin		2
55	56	my	85% lt grish gy slt/sh + 15% grish gy slt/sh	↓		"			"	"		per sin		20
56	57	my	10% " + 90% "	↑		"			"	"		mn sin		2
57	58	sy	" " " "	381334 Au 0.02 As <10		"			"	"				2
58	59	sy	" " " "			"			"	"				3
59	60	sy	d grish gy slt/sh	↓		"			"					tr
60	61	sy	70% d grish gy fg slt + 28% grish bk slt/sh + 2% lt grish gy slt/sh	↑					fg slt / slt/sh	sm/m		mod sin in slt		5
61	62	my	d grish gy fg slt	381335 Au 0.02 As 10					fg slt		tc py in slt	v mn sin in slt		1
62	63	sy	95% d grish gy slt/sh + 5% lt grish gy slt/sh						slt/sh			sin in grish gy slt		2
63	64	sy	90% grish bk slt/sh + 10% lt grish gy slt/sh	↓					"	sm/m	tc asp in pan	sin in slt		5
64	65	my	d grish gy fg slt	↑					fg slt	"		sin of slt		10
65	66	sy	d grish gy slt/sh	381336 Au 0.01 As <10					slt/sh					
66	67	sy	95% " + 5% grish bk slt/sh						"	sm/m		sin in d grish gy slt		3
67	68	sy	d grish gy slt/sh	↓					"					
68	69	sy	"	↑					"					
69	70	sy	97% " + 3% lt grish gy slt/sh	381337 Au 0.02 As <10					"			mn sin		1
70	71	sy	d grish gy fg slt			10mm q	stringer		fg slt	sm/m				3
71	72	my	70% d grish gy fg slt + 30% grish bk slt/sh	↓					fg slt / slt/sh					

RESOLUTE RESOURCES LIMITED — Hole No. MT18 — 329549 — Sheet 4 of 4

From	To	Fol.	Description	Sample No.	Sample №	ASSAY Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
72	73	my	d grish gy slt - fg slt	↑					slt/fg slt	Sm/m	tc py in q			2
73	74	my/sy	70% d grish gy slt +30% grish bk slt/sh						slt/slt/sh	"	"			1
74	75	sy	80% " +20% "	38 1338 Au 0.001 As <10					"	"	"			1
75	76	sy	d grish gy fg slt q in stringers						fg slt	"				1
76	77	sy	d grish gy slt/sh	↓					slt/sh	"				1
77	78													
78	79													
79	80													
80	81													
81	82													
82	83													
83	84													
84	85													
85	86													
86	87													
87	88													
88	89													
89	90													
90	91													
91	92													
92	93													
93	94													
94	95													
95	96													
96	97													

329550 Sheet 1 of 3

RESOLUTE RESOURCES LIMITED	Hole No. MT19	Co-ordinates 5407910mN 574136mE (AMG)	RL collar 301 m.a.s.l
Project MATHINNA / Location TOWNSHIP / Date	Drill type RC	Logged by G MacDonald	Azimuth 090°(TN) / Incl -57°

From	To	Fol.	Description	4m composite Sample No.	ASSAY Sample №	Au	As	Ave.	Lith.	Grain size	Mineralisation	Alteration	Wth. (BofOx)	%q
0	1	-	d ywish org cy	↑									sy	NA
1	2	my	" alt slt w mod q frag's	381339 Au 0.01 As 20					slt	sm/m			sy	NA
2	3	my	" " ab "						"	"			sy	NA
3	4	my	" alt fg slt w mn "	↓					fg slt				sy	NA
4	5	my	" alt fg slt	↑					"	sm/m			sy	2
5	6	my	d ywish org slt > fg slt	381340 Au <0.01 As <10					slt/fg slt				sy	4
6	7	my	" slt						slt				sy	
7	8	my	" slt > fg slt	↓					slt/fg slt	sm/m			sy	2
8	9	my	" " "	↑					"	"			sy	4
9	10	my	d ywish org slt	381341 Au <0.01 As 20					slt	"		wk spotting	sy	5
10	11	my	d ywish org fg slt						fg slt	"		"	sy	2
11	12	my	d ywish org slt/sh	↓					slt/sh	"		"	sy	8
12	13	my	" slt	↑					slt	m/sm			sy	80
13	14	my	" "	381342 Au <0.01 As 100					"	"			sy	1
14	15	my	" "						"				sy	
15	16	my	" "	↓					"				sy	
16	17	my	" "	↑					"	sm/m			sy	1
17	18	my	" "	381343 Au 0.02 As 30					"				sy	
18	19	my	" "						"	sm/m		spotting	sy	8
19	20	my	mod blwish gy fg slt	↓					fg slt	"		"	my	3
20	21		grish gy slt	381344 Au <0.01 As 170					slt				my	
21	22		"						"	sm/m			my	3

RESOLUTE RESOURCES LIMITED Hole No. MT19 329551 Sheet 2 of 3

From	To	Fol.	Description	Sample No.	Sample №	ASSAY Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
22	23		grish gy slt						slt	sm/n				2
23	24		"	↓					"	"	1% py in q & slt			15
24	25		"	↑	381531	0.09	280		"		2% py in msv vn'			
25	26		"	381345 Au <0.01 As 145	381532	<0.01	240		"	sm/n	0.5% " "			2
26	27		"		381533	0.01	150		"	"	tc " "			1
27	28		" fg slt	↓	381534	0.01	50		fg slt	"	0.5% " "	spotting		1
28	29	wy	"	↑	381535	<0.01	30		"	"	mn " "	" + mn sin		2
29	30		grish " gy slt	381346 Au 0.03 As 180	381536	0.05	260		slt	"	1% py in slt			2
30	31		"		381537	0.03	260		"	"	mn py in slt & q			4
31	32		" 3mm stringer q	↓	381538	0.02	190		"	"	mn dsd py in slt 0.5% asp in q			3
32	33		" 1mm to 3mm stringer q	↑	381539	0.10	470		"	"	mn py in slt & vn' 0.5% asp in q			10
33	34		" " " "	381347 Au 0.06 As 320	381540	0.03	240		"	"	mn py in slt & q mn asp in q			7
34	35		" 2mm to stringer q		381541	0.04	290		"	"	mn py in slt & q			1
35	36		" stringer q	↓	381542	0.09	600		"	"	1% dsd py in slt & q mn asp in q			15
36	37		" "	↑	381543	0.12	635		"	"	mn py in slt & q mn asp in q			15
37	38		" "	381348 Au 0.02 As 70	381544	<0.01	50		"	"	mn py in q & vn'			5
38	39		" fine stringer q		381545	<0.01	<10		"	"	tc py in q			3
39	40		"	↓	381546	<0.01	<10		"			spotting		tc
40	41		"	↑	381547	0.01	60		"					tc
41	42		"	381349 Au <0.01 As <10	381548	0.01	20		"	sm		v mn sin of slt		2
42	43		" fine stringer q		381549	<0.01	<10		"	"		cl in q & slt		3
43	44		"	↓	381550	<0.01	<10		"			"		tc
44	45		" fine stringer q	↑	381551	0.014	100		"	sm	tc asp & py in q			1
45	46		"	381350 Au 0.24 As 1200	381552	0.066	590		"	sm/m	tc py in q	cl in q & slt		2
46	47		"		381553	0.070	230		"	"	tc py & asp in q	"		3

RESOLUTE RESOURCES LIMITED Hole No. MT19 329552 Sheet 3 of 3

From	To	Fol.	Description	Sample No.	ASSAY Sample No.	Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
47	48	my	70% gnish gy slt + 30% gnish bk slt/sh		381554	0.914	485		slt/slt/sh	sm/m	mn py, tc sip in q	mn sin of slt		7
48	49	my	95% gnish bk slt/sh + 5% d gnish gy slt		381555	0.038	270		"	"	tc py in q	vmn sin of slt		15
49	50	my	d gnish gy slt/sh	381355 Au 0.028 As 170	381556	0.016	110		slt/sh	"		"		5
50	51	my	d gnish gy slt		381557	0.350	280		slt	"	mn py in q	mod sin of slt		25
51	52	my	"		381558	0.156	330		"	"	"	mn sin of slt		8
52	53	sy	gnish bk fg slt						fg slt		tc py in q			2
53	54	sy	"	381352 Au 0.02 As 30					"					tc
54	55	sy	d gnish gy fg slt						"					
55	56	sy	"						"					
56	57	sy	"						"	sm/m				2
57	58	sy	"	381353 Au <0.01 As <10					"		tc py in vn			
58	59	sy	95% " + 5% gnish bk slt/sh						fg slt/slt/sh					
59	60	sy	5% " + 95% "						"	sm/m				2
60	61	sy	95% gnish bk fg slt + 5% d gnish gy fg slt						fg slt	"				2
61	62	sy	gnish bk slt/sh	381354 Au <0.01 As <10					slt/sh	"				2
62	63	sy	90% d gnish gy fg slt + 5% gnish bk fg slt						fg slt	"				1
63	64	sy	" "						"					
64	65	sy	gnish bk slt/sh						slt/sh					
65	66	sy	d gnish gy slt/sh	381355 Au <0.01 As <10					"					
66	67	sy	d gnish gy fg slt						fg slt	sm/m		v ma sin of slt		2
67	68	sy	d gnish gy slt/sh						slt/sh					
68	69	sy	d gnish gy fg slt	381356 Au <0.01 As <10					fg slt	sm/m				3
69	70	sy	" "						"		tc py			1
70	71													
71	72													

329553

Sheet 1 of 3

RESOLUTE RESOURCES LIMITED	Hole No. MT20	Co-ordinates 5408193mN, 574255mE (AMG)	RL collar 292 masl
Project MATHINNA / Location TOWNSHIP / Date	Drill type RC	Logged by G MacDonald.	Azimuth 090° (TN) / Incl. -60°

From	To	Fol.	Description	4m composite Sample No.	Sample Type	ASSAY Au	As	Ave.	Lith.	Qtz.	Mineralisation	Alteration	Wth. (BofOx)	%q
0	1		org bn cy	↑						sm/n			sy	NA
1	2		"	381357 Au 0.02 As 20						"			sy	NA
2	3		" aft fg slt	381358 Au <0.01 As 30					fg slt	"			sy	NA
3	4	my	org bn & red bn slt/sh	↓					slt/sh	"			sy	10
4	5	sy	"	↑					"	"			sy	15
5	6	sy	"						"		vmn boxwork aft dsd py		sy	
6	7	sy	"						"				sy	
7	8	sy	org bn slt/sh	↓					"		vmn boxwork aft dsd py		sy	
8	9	sy	" and p ppl slt/sh (wed)	↑					"		"		py	
9	10	my	gy.sh org slt/sh	381359 Au <0.01 As 20					"	sm/n			sy	3
10	11	my	"						"				sy	
11	12	my	"	↓					"				sy	
12	13	my	mod gr.sh gy slt/sh	↑					"	sm/n			my	1
13	14	my	p gr.sh gy slt/sh	381360 Au <0.01 As 10					"				my	tc
14	15	my	"						"				sy	
15	16	my	p ol slt/sh	↓					"				sy	
16	17	my	"	↑					"	sm/n			my	5
17	18	my	lt grish gy slt/sh	381361 Au <0.01 As 30					"	"			my	3
18	19	my	"						"	"			my	3
19	20	my	"	↓					"				wy	
20	21	my	"	↑ 381362 Au <0.01 As 30					"				wy	
21	22	my	"						"				wy	

RESOLUTE RESOURCES LIMITED Hole No. MT20 329554 Sheet 2 of 3

From	To	Fol.	Description	Sample No.	ASSAY Sample№	Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
22	23	wy	lt grish gy slt/sh						slt/sh				wy	
23	24	wy	d grish gy fg slt	↓					fg slt	m/sm			my	80
24	25	wy	org bn wed slt	↑					slt	sm/m			sy	7
25	26	my	" + d grish gy slt/sh	381363	Au <0.01	As 10			slt/sh/sh				my	
26	27	wy	med gy slt						slt					
27	28	wy	med gy fg slt	↓					fg slt		tc py in slt			
28	29	wy	"	→					"					
29	30	wy	"	381364	Au <0.01	As 40			"	sm/m				1
30	31	wy	"						"	"	tc py in slt			7
31	32	wy	med gy slt	↓					slt					
32	33	wy	"	→					"	sm/m				3
33	34	wy	"	381365	Au <0.01	As 10			"	"		mn cl in q		15
34	35	wy	med d gy slt						"	"				10
35	36	wy	"	↓					"	"			wy	3
36	37	wy	"	↑					"	"			wy	2
37	38	wy	"	381366	Au 0.06	As 200			"	"				3
38	39	wy	"						"	"	mn py in q os slt	mod sin of slt cl in q		20
39	40	wy	d gy slt	↓					"	"	"	mn sin of slt		7
40	41	wy	med d gy slt	↑					"	m/sm	tc py	"		4
41	42	wy	"	381367	Au <0.01	As 30			"	"	mn py, tc asp in q	"		10
42	43	wy	"						"	"	tc py in q			50
43	44	wy	"	↓					"	"	0.5% py in sdc vn			75
44	45	wy	med d gy fg slt	↑					fg slt	sm/m	"			30
45	46	my	d gy slt/sh	381368	Au 0.01	As 290			slt/sh	"	tc py in q	mn cl in q		10
46	47	my	"						"	"	"	"		3

RESOLUTE RESOURCES LIMITED Hole No. MT20 329555 Sheet 3 of 3

From	To	Fol.	Description	Sample No.	Sample №	ASSAY Au	ASSAY Ag	ASSAY Ave.	Lith.	Qtz.	Mineralisation	Alteration	Wth. (BofOx)	%q
47	48	my	d gy fg slt	↓					fg slt	m/lr	mn py in q			20
48	49	my	"	↑					"	"	0.5% py in sdc vn	el in q		15
49	50	my	"	381369 Au 0.02 Ag 350					"	n	mn py in sdc vn			10
50	51	wy	"						"	"	tr py in q	cl in q		15
51	52	wy	med d gy fg slt	↓					"	"	"	"		15
52	53	wy	"	↑ 381370 Au <0.01 Ag 50					"	"	mn py in q			10
53	54	wy	"	↓					"	Sm/lr				10
54	55													
55	56													
56	57													
57	58													
58	59													
59	60													
60	61													
61	62													
62	63													
63	64													
64	65													
65	66													
66	67													
67	68													
68	69													
69	70													
70	71													
71	72													

329556 Sheet 1 of 3

RESOLUTE RESOURCES LIMITED	Hole No. MT21	Co-ordinates 5408193mN, 574282mE (AMG)	R.L. collar 292 mas.l
Project MATHINNA / Location TOWNSHIP / Date	Drill type RC	Logged by G MacDonald	Azimuth 090°(TN) / Incl. -60°

From	To	Fol.	Description	4m composite Sample No.	ASSAY Sample #	Au	As	Ave.	Lith.	Q+z	Mineralisation	Alteration	Wth. (BofOx)	%q
0	1		d ywish org cy							sm/n			sy	NA
1	2		"	↑						"			sy	NA
2	3		d ywish org cy aft fg slt	381371 Au <0.02 As 90					fg slt	"			sy	NA
3	4		" "	↓					"	"			sy	50
4	5	my	ggish bn slt/sh	→					slt/sh	"			sy	60
5	6	my	"	381372 Au <0.01 As 60					"				sy	
6	7	my	"						"				sy	
7	8	my	"	↓					"				sy	
8	9	my	ggish bn + d ywish org slt/sh	→					"				sy	
9	10	my	"	381373 Au <0.01 As 230					"	sm/m			sy	2
10	11	my	d ywish org fg slt						fg slt	"			sy	40
11	12	wy	"	↓					"	"			sy	30
12	13	my	" + mod d gg slt/sh	→					fg slt/slt/sh	"			sy	10
13	14	my	ywish gg + mod d gg slt/sh	381374 Au <0.01 As 220					slt/sh	"			sy	1
14	15	wy	d ywish org slt						slt	"			sy	80
15	16	my	"	↓					"	"			sy	50
16	17	my	" + mod d gg slt/sh	→					slt/slt/sh	"			sy	10
17	18	my	mod d gg slt/sh	381375 Au 0.01 As 180					"	"			my	3
18	19	my	d ywish org >> mod d gg slt/sh						"	"			my	20
19	20		quartz	↓						m/sm			sy	98
20	21	sy	mod d gg slt/sh	→					"	sm/m			sy	90
21	22	sy	"	381376 Au 0.01 As 460					"	"			sy	? 0

RESOLUTE RESOURCES LIMITED — Hole No. MT21 — 329557 — Sheet 2 of 3

From	To	Fol.	Description	Sample No.	Sample №	ASSAY Au	ASSAY As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%g
22	23	sy	med d gy slt/sh						slt/sh	sm/m				50
23	24	sy	30% d gy + 70% med gy slt/sh	↓					"	"				20
24	25	sy	70% " + 30% "	↑					"	"				20
25	26	sy	20% " + 80% "	381377		Au <0.01	As 205		"	m/sm		cl in g		95
26	27	sy	40% " 60% "						"	sm/m	0.5% py in sdc vn			20
27	28	sy	20% " 80% "	↓					"	"				10
28	29	sy	70% " 30% "	↑					"	"				3
29	30	sy	80% med d gy slt/sh 20% grish gy slt/sh	381378		Au <0.01	As 40		"	"	tc py in slt			1
30	31	sy	95% " 5% "						"	"				2
31	32	sy	med, d gy slt/sh	↓					"	"				2
32	33	sy	"	↑					"	"				2
33	34	my	d grish gy slt/sh	381379		Au 0.18	As 130		"	"				
34	35	my	"						"	"				1
35	36	my	"	↓					"	"				
36	37	my	"	↑					"	"	0.5% py in sdc vn			1
37	38	my	d grish gy slt/sh 2mm q stringers	381380		Au <0.01	As 20		"	"		mn spotting		3
38	39	wy	d grish gy slt						slt	"				2
39	40	wy	"	↓					"	"				7
40	41	wy	" 10mm q stringers	↑					"	"	tc py in slt			25
41	42	my	"	381381		Au <0.01	As 20		"	"				1
42	43	my	"						"					
43	44	my	"	↓					"	Sm/m	tc py in slt			1
44	45	my	"	→					"	"				10
45	46	my	"	381382		Au <0.01	As 40		"	"				15
46	47	my	"						"	"				3

RESOLUTE RESOURCES LIMITED Hole No. MT21 329558 Sheet 3 of 3

From	To	Fol.	Description	Sample No.	ASSAY Sample Nº	Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
47	48	my	d grish gy slt	↓					slt	Sm/a	mn py in q-slt			2
48	49	my	"	↑					"	"	tr py on frac planes			20
49	50	my	"	381383 Au <0.01 As <10					"	↑	"			10
50	51	my	"						"					1
51	52	my	d grish gy fg slt	↓					fg slt					1
52	53	my	"	→					"	Sm/a	tr py in sdc vn			3
53	54	my	"	381384 Au <0.01 As 30					"					
54	55	my	"						"					
55	56	my	"	↓					"					
56	57	my	"	→					"					
57	58	my	"	381385 Au <0.01 As 30					"					
58	59	wy	"						"					
59	60	wy	"	↓					"					
60	61	my	"	→					"					
61	62	my	"	381386 Au <0.01 As 30					"		tr py on frac planes			
62	63	wy	d grish gy slt						slt	Sm/a	tr py in sdc vn			30
63	64	wy	d grish gy fg slt	↓					fg slt	"				50
64	65	wy	"	→ 381387 Au 0.01 As 80					"	-	1% py in sdc vn			30
65	66	wy	d gy fg slt	↓					"	-	0.5% py in sdc vn cl in q			20
66	67	wy	"						"					5
67	68													
68	69													
69	70													
70	71													
71	72													

329559 Sheet 1 of 6

RESOLUTE RESOURCES LIMITED	Hole No. MT24	Co-ordinates 5406751mN, 574265mE (AMG)	R.L. collar 340 mASL
Project MATHINNA / Location GOLDEN HINGE / Date 14th Sept '95	Drill type RC	Logged by G. MacDonald	Azimuth 090°(TN) / Incl. -50°

From	To	Fol.	Description	4m composite Sample No	ASSAY Sample №	Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
0	1	—	soil											
1	2	Sy	my yuish bn slt/sh	↑					slt/sh				sy	
2	3	Sy	"	381388 Au <0.01 As 30					"				"	
3	4	Sy	"	↓					"				"	
4	5	Sy	"	→					"				"	
5	6	Sy	"	381389 Au <0.01 As 30					"				"	
6	7	Sy	"						"		tc mnst		"	
7	8	Sy	"	↓					"		"		"	
8	9	Sy	"	→					"		"		"	
9	10	Sy	"	381390 Au <0.01 As 10					"		"		"	
10	11	Sy	"						"		"		"	
11	12	Sy	"	↓					"		"		"	
12	13	Sy	" ✓ 2% puggy cy	→					"		"		"	
13	14	Sy	"	381391 Au <0.01 As <10					"				"	
14	15	Sy	"						"		tc mnst		"	
15	16	Sy	"	↓					"		"		"	
16	17	Sy	"	→					"		"		"	
17	18	Sy	"	381392 Au <0.01 As <10					"				"	
18	19	Sy	"						"		tc mnst		"	
19	20	Sy	"	↓					"		tcmnst + ferrug slt/sh		"	
20	21	Sy	70% d grish gy 30% myyuish bn slt/sh	381393 → Au 0.03 As 15					"		ferrug slt/sh		my	
21	22	Sy	d grish gy slt/sh						"					

RESOLUTE RESOURCES LIMITED Hole No. MT24 329560 Sheet 2 of 6

From	To	Fol.	Description	Sample No.	Sample No	ASSAY Au	ASSAY As	Ave	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
22	23	Sy	d gn.st gy slt/sh						slt/sh					
23	24	Sy	"	↓					"					
24	25	Sy	"	→					"					
25	26	Sy	"	381394		Au <0.01	As <10		"					
26	27	Sy	"						"		mn pg in slt/sh			
27	28	Sy	"	↓					"					
28	29	Sy	"	→					"					
29	30	Sy	"	381395		Au 0.01	As <10		"		mn pg in slt/sh			
30	31	Sy	"						"		1% " "			
31	32	Sy	"	↓					"					
32	33	Sy	"	→					"		0.5% pg in slt/sh			
33	34	Sy	"	381396		Au	As		"		1% " "			
34	35	Sy	"						"					
35	36	Sy	"	↓					"		tc pg in slt/sh			
36	37	Sy	"	→					"		"			
37	38	Sy	"	381397		Au <0.01	As <10		"		"			
38	39	Sy	"						"		mn pg in slt/sh			
39	40	Sy	"	↓					"		tc "			
40	41	Sy	"	→					"					
41	42	Sy	" + fine q sd vnt' to 1mm	381398		Au <0.01	As 10		"	sm/m	1% pg in slt/sh-q			1
42	43	Sy	"						"					
43	44	Sy	"	↓					"					
44	45	Sy	"	→					"	sm/m	tc pg in q			1
45	46	Sy	"	381399		Au <0.01	As 10		"	"	mn pg in q			2
46	47	Sy	"						"		"			1

RESOLUTE RESOURCES LIMITED Hole No. MT24 325561 Sheet 3 of 6

From	To	Fol.	Description	Sample No.	ASSAY Sample №	Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
47	48	sy	d grish gy slt/sh	↓					slt/sh		mn fg ∥ sh			
48	49	sy	"	→					"		"			
49	50	sy	"	381400 Au <0.01 As <10					"					
50	51	sy	"						"					
51	52	sy	"	↓					"	sm/m	mn fg ∥ q			3
52	53	sy	"	→					"					
53	54	sy	"	381401 Au <0.01 As 10					"					
54	55	sy	"						"		tc fg ∥ slt			
55	56	sy	"	↓					"					
56	57	sy	"	→					"					
57	58	sy	" q in stringers to 3mm	381402 Au <0.01 As 10					"	sm/m	mn fg ∥ q			4
58	59	sy/	50% " and 50% grish gy fg slt						slt/sh/fg slt	"	"	perv sil of fg slt		8
59	60		100% grish gy fg slt q in stringers to 10mm	↓					fg slt	"	"	"		30
60	61		95% grish gy fg slt + 5% d grish gy fg slt	→					"	"	tc fg ∥ q	perv sil		5
61	62		100% grish gy fg slt	381403 Au <0.01 As <10					"	"	"	"		25
62	63		"						"	"	"	mod sil		7
63	64		"	↓					"	"	"	perv sil		15
64	65		"	→					"	"	"	"		15
65	66		95% " + 5% d grish gy fg slt	381404 Au <0.01 As <10					"	"	"	"		7
66	67		50% " 50% "						"	"	"	mod sil		5
67	68		100% grish gy fg slt	↓					"	"		perv sil		10
68	69	wy	50% grish gy fg slt + 50% d grish gy fg slt	→					"	"		"		20
69	70	sy	grish gy slt/sh	381405 Au <0.01 As <10					slt/sh	"				2
70	71	sy	"						"	"				7
71	72	sy	97% grish gy slt/sh + 3% d grish gy slt/sh	↓					"	"				5

RESOLUTE RESOURCES LIMITED Hole No. MT24 329562 Sheet 4 of 6

From	To	Fol.	Description	Sample No.	ASSAY Sample№	Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
72	73	Sy	85% grnish gy slt/sh + 15% d grnish gy slt/sh	↑					slt/sh					
73	74	Sy	97% grnish gy slt/sh (½ s.d) + 3% d grnish gy slt/sh	381406	<0.01	<10			"		tr py in q	perv of ½		10
74	75	Sy	95% grnish gy slt/sh + 5% d grnish gy slt/sh		Au	As			"	sm/m				3
75	76	Sy	100% "	↓					"					1
76	77	Sy	95% " + 5% pug	↑					"					
77	78	Sy	97% " + 3% pug	381407	<0.01	<10			"					1
78	79	Sy	98% grnish gy slt/sh + 2% d grnish gy slt/sh		Au	As			"	sm/m	tr py in q	mod sil		15
79	80	wy	100% grnish gy slt/sh	↓					"	m/sm	tr py tr po	mn sil		50
80	81	Sy	97% " + 3% d grnish gy slt/sh	↑					"	sm/m	tr py in q			3
81	82	my	98% " 2% "	381408	<0.01	<10			"	"	"			1
82	83	Sy	70% " 30% " q in stringers		Au	As			"	"	"			7
83	84	Sy	100% grnish gy slt/sh	↓					"	"				1
84	85	Sy	98% " + 2% d grnish gy slt/sh	↑					"					
85	86	Sy	80% " + 20% "	381409	<0.01	20			"					
86	87	Sy	100% grnish gy slt/sh		Au	As			"					
87	88	Sy	80% " + 20% d grnish gy slt/sh	↓					"	sm/m	tr py in q	mn sil		5
88	89	Sy	90% " + 10% "	↑					"	"		v mn sil		2
89	90	Sy	50% " + 50% "	381410	0.01	110			"	"	tr py in q	"		5
90	91	Sy	40% " + 60% "		Au	As			"	"	"			2
91	92	Sy	70% " + 30% " + 3% puggy cy q in stringers	↓					"	m/sm	mn py in q			20
92	93	Sy	100% grnish gy slt/sh	↑					"	sm/m	tr py in q			20
93	94	Sy	"	381411	0.02	70			"	"	"			7
94	95	Sy	70% grnish gy slt/sh + 30% d grnish gy slt/sh		Au	As			"	"	"			2
95	96	Sy	10% " + 90% "	↓					"	"	"			5
96	97	Sy	80% " + 20% "	↑					"					

ESOLUTE RESOURCES LIMITED — Hole No. MT24 — 329563 — Sheet 5 of 6

From	To	Fol.	Description	Sample No.	ASSAY Sample№	Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
97	98	Sy	80% grish gy slt/sh + 20% d grish gy slt/sh	381412 Au<0.01 As<10										
98	99	Sy	90% " + 10% "	↓							mpy on fiai slaves			1
99	100	Sy	100% grish gy slt/sh	↑							tc " "			2
100	101	Sy	95% grish gy slt/sh + 5% d grish gy slt/sh	381413 Au 0.01 As 10							mn " "			1
101	102	Sy	90% " + 10% "								tc " "			1
102	103	Sy	80% " + 20% "								tc py in q			3
103	104	Sy	90% " + 10% "	↓							"			
104	105	Sy	90% " + 10% "	↑							tc py in slt			
105	106	Sy	95% " + 5% "	381414 Au<0.01 As 30							"			tc
106	107	Sy	95% " + 5% "								mn py in slt			
107	108	Sy	95% " + 5% "	↓										
108	109	Sy	100% grish gy slt/sh	↑										
109	110	Sy	" q ± stringers	381415 Au<0.01 As 20										2
110	111	Sy	" "											5
111	112	Sy	" "	↓										5
112	113	Sy	"	↑										
113	114	Sy	"	381416 Au<0.01 As<10										
114	115	Sy	97% " + 3% ggish ywgn slt/sh											
115	116	Sy	70% grish gy slt/sh + 30% "	↓										1
116	117	Sy	97% " + 3% d grish gy slt/sh	↑										
117	118	Sy	68% " + 30% ggish ywgn slt/sh + 2% d grish gy slt/sh	381417 Au<0.01 As<10										25
118	119	Sy	95% " + 5% ggish ywgn slt/sh											5
119	120	Sy	60% " + 40% "	↓										5
120	121	Sy	50% " + 50% "	381418 Au<0.01 As 10										5
121	122	Sy	95% " + 5% "											3

RESOLUTE RESOURCES LIMITED Hole No. MT24 329561 Sheet 6 of 6

From	To	Fol.	Description	Sample No.	Sample №	ASSAY Au	ASSAY As	ASSAY Ave.	Lith.		Mineralisation	Alteration	Wth. (BofOx)	%q
122	123		98% grsh gg slt/sh + 2% ggish gw gr slt/sh											1
123	124		97% " + 3% "	↓										3

329565 Sheet 1 of 4

RESOLUTE RESOURCES LIMITED	Hole No. MT26	Co-ordinates 5409900mN, 573408mE (AMG)	RL collar 354 masl
Project MATHINNA / Location CHINAMENS HILL / Date 15th Sept'95	Drill type RC	Logged by G. MacDonald	Azimuth 090°(TN) / Incl. −50°

From	To	FoL	Description	4m composite Sample No.	ASSAY Sample No.	Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
0	1		Fill											
1	2		Fill											
2	3	my	gy:sh org slt	381419 Au 0.02 As 60					slt				sy	
3	4	my	"						"	sml			sy	20
4	5	my	"						"	"			sy	2
5	6	my	"	381420 Au <0.01 As 35					"	"	q ferug		sy	20
6	7	my	"						"				sy	
7	8	my	"						"	sml			sy	1
8	9	my	"						"				sy	
9	10	my	mod gwish bn slt	381421 Au <0.01 As 50					"				sy	
10	11	my	"						"				sy	
11	12	my	"						"	sml			sy	20
12	13	my	gy:sh org slt						"	"			sy	3
13	14	my	"	381422 Au <0.01 As 70					"	"			sy	tc
14	15	sy	80% gy:sh org slt + 20% gy:sh org fg slt						"				sy	
15	16	sy	90% " + 10% "						"				sy	
16	17	sy	mod bn slt/sh						slt/sh				sy	
17	18	sy	gy:sh org slt/sh	381423 Au <0.01 As 150					"	sml			sy	2
18	19	my	gy:sh org slt						slt				sy	
19	20	sy	"						"	sml	q ferug + mist		sy	15
20	21	my	"	381424 Au 0.09 As 450					"				sy	
21	22	my	"						"	sml	q ferug		sy	40

RESOLUTE RESOURCES LIMITED Hole No. MT26 329566 Sheet 2 of 4

From	To	Fol.	Description	Sample No.	ASSAY Sample №	Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (Bof Ox)	%q
22	23	wy	gyish org slt						slt	sm/n	q ferrug		sy	40
23	24	wy	"	↓					"	"	"		sy	20
24	25	my	70% " + 30% lt grish gy slt/sh	↑	381559	0.16	180		"	"			sy	30
25	26	wy	100% " —	381425 Au 0.175 As 340	381560	0.06	250		"		" + mast		sy	30
26	27	my	gyish org slt		381561	0.37	500		"		" "		sy	25
27	28	sy	d gwish org fg slt	↓	381562	0.04	390		fg slt				sy	10
28	29	sy	d gwish org slt/sh	↑					slt/sh	"	" "		sy	1
29	30	sy	"	381426 Au 0.02 As 260					"	"	" "		sy	5
30	31	sy	70% d gwish org + 30% lt grish gy slt/sh						"		mast		sy	
31	32	sy	" "	↓					"	sm/n	q ferrug + mast		sy	2
32	33	my	70% d gwish org + 30% lt grish gy slt	↑					slt		mast		sy	
33	34	my	" "	381427 Au 0.01 As 80					"	sm/n	q ferrug + mast		sy	20
34	35	my	gwish gy slt						"	"	"		sy	1
35	36	my	70% lt grish gy slt + 30% mod gwish bn slt	↓					"	"			my	1
36	37	my	d gwish org slt	→					"	"			sy	3
37	38	my	"	381428 Au 0.05 As 160					"	"			sy	5
38	39	my	"						"	"			sy	50
39	40	my	gwish gy slt	↓					"	"	"		my	10
40	41	wy	"	↑					"		mast		sy	
41	42	wy	90% mod gwish bn slt + 10% gwish gy slt	381429 Au 0.03 As 150					"				sy	
42	43	wy	"						"		"		sy	
43	44	wy	"	↓					"	sm/n	q ferrug + mast		sy	15
44	45	wy	"	↑	381563	0.07	390		"	"	" "		sy	5
45	46	wy	lt grish gy slt	381430 Au 0.24 As 210	381564	0.14	150		"		" "		sy	8
46	47	wy	80% lt grish gy slt + 20% mod gwish bn slt		381565	0.71	360		"	"	" "		sy	15

RESOLUTE RESOURCES LIMITED Hole No. MT46 329267 Sheet 3 of 4

From	To	Fol.	Description	Sample No.	Sample №	ASSAY Au	ASSAY As	Ave.	Lith.	Q+z	Mineralisation	Alteration	Wth. (BofOx)	%q
47	48	my	95% lt grnish gy slt + 5% mod ywish bn slt	↓	381566	0.03	50		slt				my	
48	49	my	" + "	→					"	s-/-	q ↓		my	7
49	50	my	" + "	381431 Au 0.07 As 90					"	"			my	7
50	51	my	75% " + 25% "						"	"			my	15
51	52	my	d ywish org slt	↓					"	"			sy	25
52	53	my	"	→					"	"			sy	30
53	54	my	"	381432 Au 0.045 As 95					"	"			sy	20
54	55	wy	d gy slt						"	"	tr asp in q		wy	15
55	56	wy	"	↓					"	"			wy	3
56	57	wy	"	→					"		q ↓ vnlt		wy	5
57	58	wy	"	381433 Au 0.01 As 30					"	"	"		wy	7
58	59	wy	"						"	m/sa	"		wy	5
59	60	wy	"	↓					"	"	"		wy	5
60	61	wy	d grnish gy slt	→					"				wy	
61	62	wy	"	381434 Au 0.02 As 10					"	m/sa	q ↓		wy	7
62	63	wy	"						"	"	"		wy	7
63	64	wy	"	↓					"		"		wy	tc
64	65	sy	d grish gy slt/sh	→					slt/sh					
65	66	sy	"	381435 Au <0.01 As <10					"	sa/m	mn py in q			5
66	67	sy	"						"	"				3
67	68	sy	"	↓					"	"				3
68	69	sy	med d gy slt/sh	→					"					
69	70	sy	"	381436 Au <0.01 As <10					"					1
70	71	sy	"						"				wy	10
71	72	sy	"	↓					"					5

RESOLUTE RESOURCES LIMITED Hole No. MT26 329568 Sheet 4 of 4

From	To	Fol.	Description	Sample No.	Sample No.	ASSAY Au	As	Ave.	Lith.	Qtz	Mineralisation	Alteration	Wth. (BofOx)	%q
72	73	mg	med d gy slt/sh	↑					slt/sh	sm/m	q ↓ mg		wg	10
73	74	mg	lt ol gy slt	381437					slt	"			wg	2
74	75	sg	med d gy slt/sh	Au <0.01 As <10					slt/sh	"				3
75	76	sg	"	↓					"	"				4
76	77	sg	"	↑					"	"				2
77	78	sg	"	381438					"					
78	79	sg	"	Au <0.01 As <10					"					1
79	80	wg	lt gy slt	↓					slt	m/sm				50
80	81	mg	"	↑					"	sm/m				2
81	82	vsg	80% d gy slt/sh + 20% gy ish bk slt/sh	381439					slt/sh					
82	83	vsg	80% " + 20% "	Au <0.01 As <10					"					
83	84	vsg	70% " + 30% "	↓					"					
84	85	vsg	d gy slt/sh	↑					"					
85	86	sg	"	381440					"					
86	87	vsg	"	Au <0.01 As 20					"					
87	88	sg	90% d gy slt/sh + 10% gy ish bk slt/sh	↓					"					
88	89	vsg	90% " + 10% "	↑ 381441					"					
89	90	vsg	50% " + 50%	↓ Au <0.01 As 50					"					
90	91													
91	92													
92	93													
93	94													
94	95													
95	96													
96	97													

APPENDIX L

Percussion Drilling Sample Record Sheets and Assay Results

RESOLUTE SAMANTHA GROUP 329570

Project Name: MATHINNA Prospect Name: TOWNSHIP/CHURCH HILL Tenement No.: EL17/9

Sampler: GARY Sample Type: R.C. Sample Submission No.: K0942

Note: New Area - New Page & New Sample Type - New Page Date: 23/8/95

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
s 381001	MT 1	0-4	K09425 ↓		
2	"	4-8			
3	"	8-12			
4	"	12-16			
5	"	16-20			
6	"	20-24			
7	"	24-28			
8	"	28-32			
9	"	32-36			
s 381010	"	36-40			
1	"	40-44			
2	"	44-48			
3	"	48-52			
4	"	52-56			
5	"	56-60			
6	"	60-64			
7	"	64-68			
8	"	68-72			
9	"	72-76			
s 381020	"	76-79			
1	MT2	0-4			
2		4-8			
3		8-12			
4		12-16			
5		16-20			
6		20-24			
7		24-28			
8		28-32			
9		32-36			
s 381030		36-40			

RESOLUTE SAMANTHA GROUP

329571

Project Name: MATHINNA Prospect Name: TOWNSHIP/CHURCH HILL Tenement No.: EL17/91

Sampler: GARY Sample Type: R.C. Sample Submission No.: K09425 K09426

Note: New Area - New Page & New Sample Type - New Page Date: 24/8/95

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
s 381031	MT 2	40-44			
2	"	44-48			
3	"	48-52			
4	"	52-56			
5	"	56-60			
6	"	60-64			
7	"	64-68			
8	"	68-72			
9	"	72-76			
s 381040	"	76-80	↑ K09425		
1	"	80-84			
2	MT 3	0-4	↓ K09426		
3	"	4-8			
4	"	8-12			
5	"	12-16			
6	"	16-20			
7	"	20-24			
8	"	24-28			
9	"	28-32			
s 381050	"	32-36			
1	"	36-40			
2	"	40-44			
3	"	44-48			
4	"	48-52			
5	"	52-56			
6	"	56-60			
7	"	60-64			
8	"	64-68			
9	"	68-72			
s 381060	"	72-76			

RESOLUTE SAMANTHA GROUP

329572

Project Name: MATHINNA Prospect Name: TOWNSHIP/CHURCH HILL Tenement No.: EL 17/91

Sampler: GARY Sample Type: R.C Sample Submission No.: K0942

Note: New Area - New Page & New Sample Type - New Page Date: 25/8/95

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
s 381061	MT 3	76-80			
2	"	80-85			
3	MT 4	0-4			
4	"	4-8			
5	"	8-12			
6	"	12-16			
7	"	16-20			
8	"	20-24			
9	"	24-28			
s 381070	"	28-32			
1	"	32-36			
2	"	36-40			
3	"	40-44			
4	"	44-48			
5	"	48-52			
6	"	52-56			
7	"	56-60			
8	"	60-64			
9	"	64-68			
s 381080	"	68-72			
1	"	72-76			
2	"	76-80			
3	"	80-85			
4	MT 5	0-4			
5	"	4-8			
6	"	8-12			
7	"	12-16			
8	"	16-20			
9	"	20-24			
s 381090	"	24-28			

RESOLUTE SAMANTHA GROUP

329573

Project Name: MATHINNA Prospect Name: TOWNSHIP / CHURCH HILL Tenement No.: EL 17/91

Sampler: GARY Sample Type: R.C. Sample Submission No.: K09426

Note: New Area - New Page & New Sample Type - New Page Date: 27/8/95

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
s 381091	MT5	28-32			
2	"	32-36			
3	"	36-40			
4	"	40-44			
5	"	44-48			
6	"	48-52			
7	"	52-56			
8	"	56-60			
9	"	60-64			
s 381100	"	64-67			
1	MT6	0-4			
2	"	4-8			
3	"	8-12			
4	"	12-16			
5	"	16-20			
6	"	20-24			
7	"	24-28			
8	"	28-32			
9	"	32-36			
s 381110	"	36-40			
1	"	40-44			
2	"	44-48			
3	"	48-52			
4	"	52-56			
5	"	56-60			
6	MT7	[illegible]	0-4		
7	"	[illegible]	4-8		
8	"	[illegible]	8-12		
9	"	[illegible]	12-16		
s 381120	"	[illegible]	16-20		

RESOLUTE SAMANTHA GROUP

329574

Project Name: MATHINNA Prospect Name: TOWNSHIP/CHURCH HILL Tenement No.: EL 17/91

Sampler: GARY Sample Type: R.C. Sample Submission No.: K0942

Note: New Area - New Page & New Sample Type - New Page Date: 27/8/95

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
s 381121	MT 7	20-24			
2	"	24-28			
3	"	28-32			
4	"	32-36			
5	"	36-40			
6	"	40-44			
7	"	44-48			
8	"	48-52			
9	"	52-56			
s 381130	"	56-60			
1	"	60-64			
2	"	64-68			
3	"	68-72			
4	"	72-76			
5	"	76-80			
6	"	80-84			
7	MT 8	0-4			
8	"	4-8			
9	"	8-12			
s 381140	"	12-16			
1	"	16-20			
2	"	20-24			
3	"	24-28			
4	"	28-32			
5	"	32-36			
6	"	36-40			
7	"	40-44			
8	"	44-48			
9	"	48-52			
s 381150	"	52-56			

RESOLUTE SAMANTHA GROUP

329575

Project Name: MATHINNA Prospect Name: TOWNSHIP/CHURCH HILL Tenement No.: EL 17/91

Sampler: GARY Sample Type: R.C. Sample Submission No.: K09427 K09428

Note: New Area - New Page & New Sample Type - New Page Date: 28/8/95

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
s 381151	MT8	56-60	↑ K09426		
2	"	60-63			
3	MT9	0-4	↓ K09427		
4	"	4-8			
5	"	8-12			
6	"	12-16			
7	"	16-20			
8	"	20-24			
9	"	24-28			
s 381160	"	28-32			
1	"	32-36			
2	"	36-40			
3	"	40-44			
4	"	44-48			
5	"	48-52			
6	"	52-56			
7	"	56-60			
8	"	60-64			
9	"	64-68			
s 381170	"	68-72			
1	"	72-77			
2	MT10	0-4			
3	"	4-8			
4	"	8-12			
5	"	12-16			
6	"	16-20			
7	"	20-24			
8	"	24-28			
9	"	28-32			
s 381180	"	32-36			

RESOLUTE SAMANTHA GROUP

329576

Project Name: MATHINNA Prospect Name: TOWNSHIP/CHURCH HILL Tenement No.: EL17/91

Sampler: GARY Sample Type: R.C. Sample Submission No.: K09427

Note: New Area - New Page & New Sample Type - New Page Date: 29/8/95

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
s 381181	MT10	36-40			
2	"	40-44			
3	"	44-48			
4	"	48-52			
5	"	52-56			
6	"	56-60			
7	"	60-64			
8	"	64-68			
9	"	68-72			
s 381190	"	72-76			
1	"	76-79			
2	MT 11	0-4			
3	"	4-8			
4	"	8-12			
5	"	12-16			
6	"	16-20			
7	"	20-24			
8	"	24-28			
9	"	28-32			
s 381200	"	32-36			
1	"	36-40			
2	"	40-44			
3	"	44-48			
4	"	48-52			
5	"	52-56			
6	"	56-60			
7	"	60-64			
8	"	64-68			
9	"	68-72			
s 381210	"	72-76			

RESOLUTE SAMANTHA GROUP

329577

Project Name: MATHINNA Prospect Name: TOWNSHIP/CHURCH HILL Tenement No.: EL 17/91

Sampler: GARY Sample Type: R.C. Sample Submission No.: K09427 K09428

Note: New Area - New Page & New Sample Type - New Page Date: 30 / 8 / 95

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
s 381211	"	76-80			
2	"	80-85			
3	MT 12	0-4			
4	"	4-8			
5	"	8-12			
6	"	12-16			
7	"	16-20			
8	"	20-24			
9	"	24-28			
s 381220	"	28-32			
1	"	32-36			
2	"	36-40			
3	"	40-44			
4	"	44-48			
5	"	48-52			
6	"	52-56			
7	"	56-60			
8	"	60-64			
9	"	64-68			
s 381230	"	68-72			
1	"	72-76			
2	"	76-80	↑		
3	"	80-85	K09427		
4	MT 13	0-4	K09428 ↓		
5	"	4-8			
6	"	8-12			
7	"	12-16			
8	"	16-20			
9	"	20-24			
s 381240	"	24-28			

RESOLUTE SAMANTHA GROUP

329578

Project Name: MATHINNA Prospect Name: TOWNSHIP/CHURCH HILL Tenement No.: EL 17/91

Sampler: GARY Sample Type: R.C. Sample Submission No.: K09428

Note: New Area - New Page & New Sample Type - New Page Date: 4/9/95

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
s 381241	MT 13	28-32			
2	"	32-36			
3	"	36-40			
4	"	40-44			
5	"	44-48			
6	"	48-52			
7	"	52-56			
8	"	56-60			
9	"	60-64			
s 381250	"	64-68			
1	"	68-72			
2	"	72-76			
3	"	76-80			
4	"	80-84			
5	"	84-88			
6	MT 14	0-4			
7	"	4-8			
8	"	8-12			
9	"	12-16			
s 381260	"	16-20			
1	"	20-24			
2	"	24-28			
3	"	28-32			
4	"	32-36			
5	"	36-40			
6	"	40-44			
7	"	44-48			
8	"	48-52			
9	"	52-56			
s 381270	"	56-60			

RESOLUTE SAMANTHA GROUP

329579

Project Name: MATHINNA Prospect Name: TOWNSHIP/CHURCH HILL Tenement No.: EL 17/91

Sampler: GARY Sample Type: R.C. Sample Submission No.: K09428

Note: New Area - New Page & New Sample Type - New Page Date: 5 / 9 / 95

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
s 381271	MT 14	60-64			
2	"	64-68			
3	"	68-72			
4	"	72-76			
5	"	76-79			
6	MT15	0-4			
7	"	4-8			
8	"	8-12			
9	"	12-16			
s 381280	"	16-20			
1	"	20-24			
2	"	24-28			
3	"	28-32			
4	"	32-36			
5	"	36-40			
6	"	40-44			
7	"	44-48			
8	"	48-52			
9	"	52-56			
s 381290	"	56-60			
1	"	60-64			
2	"	64-68			
3	"	68-72			
4	"	72-76			
5	"	76-80			
6	"	80-84			
7	"	84-88			
8	"	88-92			
9	"	92-97			
s 381300	MT16	0-4			

RESOLUTE SAMANTHA GROUP

329580

Project Name: MATHINNA Prospect Name: TOWNSHIP/CHURCH HILL Tenement No.: EL 17/91

Sampler: GARY Sample Type: R.C. Sample Submission No.: K09428

Note: New Area - New Page & New Sample Type - New Page Date: 6 19 95

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
s 381301	MT 16	4-8			
2	"	8-12			
3	"	12-16			
4	"	16-20			
5	"	20-24			
6	"	24-28			
7	"	28-32			
8	"	32-36			
9	"	36-40			
s 381310	"	40-44			
1	"	44-48			
2	"	48-52			
3	"	52-56			
4	"	56-60			
5	"	60-64			
6	"	64-68			
7	"	68-72			
8	"	72-76			
9	"	76-79			
s 381320	MT 18	0-4			
1	"	4-8			
2	"	8-12			
3	"	12-16			
4	"	16-20			
5	"	20-24			
6	"	24-28			
7	"	28-32			
8	"	32-36			
9	"	36-40			
381330	"	40-44			

RESOLUTE SAMANTHA GROUP

329581

Project Name: MATHINNA Prospect Name: TOWNSHIP/DURRHILL Tenement No.: EL 17/91

Sampler: GARY Sample Type: R.C. Sample Submission No.: K09428. K09429

Note: New Area - New Page & New Sample Type - New Page Date: 7/9/95

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
s 381331	MT 19	44-48			
2	"	48-52			
3	"	52-56			
4	"	56-60			
5	"	60-64			
6	"	64-68			
7	"	68-72	↑		
8	"	72-77	K09428		
9	MT 19	0-4	K09429		
s 381340	"	4-8	↓		
1	"	8-12			
2	"	12-16			
3	"	16-20			
4	"	20-24			
5	"	24-28			
6	"	28-32			
7	"	32-36			
8	"	36-40			
9	"	40-44			
s 381350	"	44-48			
1	"	48-52			
2	"	52-56			
3	"	56-60			
4	"	60-64			
5	"	64-68			
6	"	68-70			
7	MT20	0-4			
8	"	4-8			
9	"	8-12			
s 381360	"	12-16			

RESOLUTE SAMANTHA GROUP

329582

Project Name: MATHINNA Prospect Name: TOWNSHIP/CHURCH HILL Tenement No.: EL 17/91

Sampler: GARY Sample Type: R.C. Sample Submission No.: K09429 K09430

Note: New Area - New Page & New Sample Type - New Page Date: 8 / 9 / 95

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
s 381361	MT 20	16-20			
2	"	20-24			
3	"	24-28			
4	"	28-32			
5	"	32-36			
6	"	36-40			
7	"	40-44			
8	"	44-48			
9	"	48-52			
s 381370	"	52-54			
1	MT 21	1-4			
2	"	4-8			
3	"	8-12			
4	"	12-16			
5	"	16-20			
6	"	20-24			
7	"	24-28			
8	"	28-32			
9	"	32-36			
s 381380	"	36-40			
1	"	40-44			
2	"	44-48			
3	"	48-52			
4	"	52-56			
5	"	56-60			
6	"	60-64			
7	"	64-66	K09429		
8	MT 24	1-4			
9	"	4-8	K09430		
s 381390	"	8-12			

RESOLUTE SAMANTHA GROUP

329583

Project Name: MATHINNA Prospect Name: TOWNSHIP/CHURCH HILL Tenement No.: EL 17/91

Sampler: GARY Sample Type: R.C. Sample Submission No.: K09430

Note: New Area - New Page & New Sample Type - New Page Date: 14/9/95

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
s 381391	MT 24	12-16			
2	"	16-20			
3	"	20-24			
4	"	24-28			
5	"	28-32			
6	"	32-36			
7	"	36-40			
8	"	40-44			
9	"	44-48			
s 381400	"	48-52			
1	"	52-56			
2	"	56-60			
3	"	60-64			
4	"	64-68			
5	"	68-72			
6	"	72-76			
7	"	76-80			
8	"	80-84			
9	"	84-88			
s 381410	"	88-92			
1	"	92-96			
2	"	96-100			
3	"	100-104			
4	"	104-108			
5	"	108-112			
6	"	112-116			
7	"	116-120			
8	"	120-124			
9	MT 26	2-4			
s 381420	"	4-8			

RESOLUTE SAMANTHA GROUP

329584

Project Name: MATHINNA Prospect Name: CHINAMENS HILL Tenement No.: 17/91

Sampler: GARY Sample Type: R.C. Sample Submission No.: K09430

Note: New Area - New Page & New Sample Type - New Page Date: 15/9/95

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
s 381421	MT26	8-12			
2	"	12-16			
3	"	16-20			
4	"	20-24			
5	"	24-28			
6	"	28-32			
7	"	32-36			
8	"	36-40			
9	"	40-44			
s 381430	"	44-48			
1	"	48-52			
2	"	52-56			
3	"	56-60			
4	"	60-64			
5	"	64-68			
6	"	68-72			
7	"	72-76			
8	"	76-80			
9	"	80-84			
s 381440	"	84-88	↑ K09430.		
1	"	88-90			
2					
3					
4					
5					
6					
7					
8					
9					
s 381450					

RESOLUTE SAMANTHA GROUP

329585

Project Name: MATHINNA Prospect Name: TOWNSHIP/CHURCH HILL Tenement No.: EL 17/91

Sampler: GARY Sample Type: R.C. (SPLIT) Sample Submission No.: K9432

Note: New Area - New Page & New Sample Type - New Page Date: 28 / 9 / 95

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
s 381451	MT 1	16-17			
2	"	17-18			
3	"	18-19			
4	"	19-20			
5	"	20-21			
6	"	21-22			
7	"	22-23			
8	"	23-24			
9	"	24-25			
s 381460	"	25-26			
1	"	26-27			
2	"	27-28			
3	"	36-37			
4	"	37-38			
5	"	38-39			
6	"	39-40			
7	"	40-41			
8	"	41-42			
9	"	42-43			
s 381470	"	43-44			
1	MT 2	0-1			
2	"	1-2			
3	"	2-3			
4	"	3-4			
5	"	4-5			
6	"	5-6			
7	"	6-7			
8	"	7-8			
9	"	8-9			
s 381480	"	9-10			

RESOLUTE SAMANTHA GROUP

329586

Project Name: MATHINNA Prospect Name: TOWNSHIP/CHURCH HILL Tenement No.: EL/17/91

Sampler: GARY Sample Type: RC. (SPLIT) Sample Submission No.: K9432

Note: New Area - New Page & New Sample Type - New Page Date: 28/9/95

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
s 381481	MT 2	10-11			
2	"	11-12			
3	"	28-29			
4	"	29-30			
5	"	30-31			
6	"	31-32			
7	"	40-41			
8	"	41-42			
9	"	42-43			
s 381490	"	43-44			
1	"	44-45			
2	"	45-46			
3	"	46-47			
4	"	47-48			
5	MT 3	64-65			
6	"	65-66			
7	"	66-67			
8	"	67-68			
9	"	68-69			
s 381500	"	69-70			
1	"	70-71			
2	"	71-72			
3	MT 4	36-37			
4	"	37-38			
5	"	38-39			
6	"	39-40			
7	"	40-41			
8	"	41-42			
9	"	42-43			
s 381510	"	43-44			

RESOLUTE SAMANTHA GROUP

329587

Project Name: MATHINNA Prospect Name: TOWNSHIP/CHURCH HILL Tenement No.: EL 17/91

Sampler: GARY Sample Type: R.C. (SPLIT) Sample Submission No.: K9432

Note: New Area - New Page & New Sample Type - New Page Date: 29/9/95

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
s 381511	MT 5	56-57			
2	"	57-58			
3	"	58-59			
4	"	59-60			
5	MT 6	16-17			
6	"	17-18			
7	"	18-19			
8	"	19-20			
9	MT 7	40-41			
s 381520	"	41-42			
1	"	42-43			
2	"	43-44			
3	MT 15	72-73			
4	"	73-74			
5	"	74-75			
6	"	75-76			
7	"	76-77			
8	"	77-78			
9	"	78-79			
s 381530	"	79-80			
1	MT 19	24-25			
2	"	25-26			
3	"	26-27			
4	"	27-28			
5	"	28-29			
6	"	29-30			
7	"	30-31			
8	"	31-32			
9	"	32-33			
s 381540	"	33-34			

RESOLUTE SAMANTHA GROUP

329588

Project Name: MATHINNA Prospect Name: TOWNSHIP / CHURCH HILL Tenement No.: EL 17/91

Sampler: GARY Sample Type: RC. (SPLIT) Sample Submission No.: K9432 K9431

Note: New Area - New Page & New Sample Type - New Page Date: 29/9/95

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
s 381541	MT19	34-35	↑		
2	"	35-36			
3	"	36-37			
4	"	37-38			
5	"	38-39	K9432		
6	"	39-40			
7	"	40-41			
8	"	41-42			
9	"	42-43			
s 381550	"	43-44	↓		
1	"	44-45	↑		
2	"	45-46			
3	"	46-47			
4	"	47-48	K9431		
5	"	48-49			
6	"	49-50			
7	"	50-51			
8	"	51-52	↓		
9	MT26	24-25	↑ K9432		
s 381560	"	25-26	↓		
1	"	26-27			
2	"	27-28			
3	"	44-45			
4	"	45-46			
5	"	46-47			
6	"	47-48			
7					
8					
9			↓		
s 381570			↓		

RESOLUTE SAMANTHA GROUP

329589

Project Name: MATHINNA. Prospect Name: TOWNSHIP/CHURCH HILL Tenement No.: EL 17/91

Sampler: GRANT Sample Type: RC SPLIT Sample Submission No.:

Note: New Area - New Page & New Sample Type - New Page Date: 2/10/95

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
s 381601					
2					
3					
4					
5					
6					
7					
8					
9					
s 381610					
1					
2					
3	MT2	4-5	RC TO ANALABS		
4	"	5-6	"		
5	"	6-7	"		
6	"	7-8	"		
7	MT15	72-73	"		
8	"	73-74	"		
9	"	74-75	"		
s 381620	"	75-76	"		
1	"	76-77	"		
2	"	77-78	"		
3	"	78-79	"		
4	"	79-80	"		
5	MT19	44-45	"		
6	"	45-46	"		
7	"	46-47	"		
8	"	47-48	"		
9	"	48-49	"		
s 381630	"	49-50	"		

CHECK ASSAYS

RESOLUTE SAMANTHA GROUP

329590

Project Name: _____ Prospect Name: TOWNSHIP/CHURCH HILL Tenement No.: 17/91

Sampler: GRANT Sample Type: RC SPLIT, Sample Submission No.: _____

Note: New Area - New Page & New Sample Type - New Page Date: __/__/__

Sample No.	Drillhole	Interval	Description	Coordinates N	Coordinates E
s 381631	MT19	50-51	RC TO ANALABS		
2	"	51-52	"		
3					
4					
5					
6					
7					
8					
9					
s 381640					
1					
2					
3					
4					
5					
6					
7					
8					
9					
s 381650					
1					
2					
3					
4					
5					
6					
7					
8					
9					
s 381660					

MinLab

329591

MINCULTURE LABORATORIES PTY LTD ACN 008 960 174 TRUSTEE FOR THE MINLAB UNIT TRUST TRADING AS MINLAB

18A Denninup Way
MALAGA WA 6062
Tel: (09) 249 5277
Fax: (09) 249 5323

257A Forrest Street
KALGOORLIE WA 6430
Tel: (090) 21 5664
Fax: (090) 91 2200

Lot 484 Criddle St
MT MAGNET WA 6638
Tel: (099) 634 532
Fax: (099) 634 531

ANALYTICAL REPORT

Reference No: P61576

Date: 06 SEP 95

Samples Received: 31 AUG 95
Order Number : K09425C
Submission Sheet: K09425C
Project Number : TAS
Samples in Batch: 75

THIS REPORT HAS BEEN PREPARED FOR

THE RESOLUTE SAMANTHA GROUP

AND SHOULD BE READ IN CONJUNCTION WITH THE FINAL PAGE

Authorised by: C.A. Jenkins

ATTN: G McDONALD
THE RESOLUTE SAMANTHA GROUP
MANGANA RD
FINGAL TAS 7214

329592

Reference No: P61576 ATTN: G McDONALD Page: 1

	Au ppm	Au(R1) ppm	Au(R2) ppm	As ppm
Detn Limit	0.01	0.01	0.01	10
381001	0.06			<10
381002	0.04			30
381003	0.02			10
381004	0.04			30
381005	0.12			30
381006	0.63	0.72		70
381007	0.14			140
381008	0.06			100
381009	0.17			340
381010	0.11			280
381011	0.25	0.11	0.12	1050
381011 Rpt	0.11			1050

Reference No: P61576 ATTN: G McDONALD

	Au ppm	Au(R1) ppm	Au(R2) ppm	As ppm
Detn Limit	0.01	0.01	0.01	10
381012	0.06			540
381012 Rpt	0.06			530
381013	0.07			90
381014	0.11			90
381015	0.07			110
381016	0.17			80
381017	0.03			50
381018	0.06			140
381019	0.07			30
381020	0.02			20
381021	0.97			340
381022	3.86	4.39	4.02	740
381023	0.20			370
381024	0.03			70
381025	0.06			<10
381026	0.10			310
381027	0.05			80
381028	0.38			120
381028 Rpt	0.42			120
381029	0.05			80
381030	0.12			70
381031	0.26			390
381032	0.44	0.21	0.11	1000
381033	0.04			60
381034	0.07			200
381035	0.02			40
381036	0.02			<10
381036 Rpt	0.02			10
381037	0.06			80
381038	0.04			70
381039	0.09	0.11		50
381040	0.02			60
381040 Rpt	0.02			40
381041	0.03			30

****

% Implies this result reported in %

Au, Au(R1), Au(R2),
Technique - Fire Assay on a 50 gram charge

As,
Technique - AAS

END OF REPORT

MinLab

329595

MINCULTURE LABORATORIES PTY LTD ACN 008 960 174 TRUSTEE FOR THE MINLAB UNIT TRUST TRADING AS MINLAB

18A Denninup Way
MALAGA WA 6062
Tel: (09) 249 5277
Fax: (09) 249 5323

257A Forrest Street
KALGOORLIE WA 6430
Tel: (090) 21 5664
Fax: (090) 91 2200

Lot 484 Criddle St
MT MAGNET WA 6638
Tel: (099) 634 532
Fax: (099) 634 531

ANALYTICAL REPORT

Reference No: P61611

Date: 11 SEP 95

Samples Received: 05 SEP 95
Order Number : 09426
Submission Sheet: 09426
Project Number : TAS
Samples in Batch: 111

THIS REPORT HAS BEEN PREPARED FOR

THE RESOLUTE SAMANTHA GROUP

AND SHOULD BE READ IN CONJUNCTION WITH THE FINAL PAGE

Authorised by: A.J. Ferguson

ATTN: G McDONALD
THE RESOLUTE SAMANTHA GROUP
MANGANA RD
FINGAL TAS 7214

Reference No: P61611 · ATTN: G McDONALD

	Au ppm	Au(R1) ppm	Au(R2) ppm	As ppm
Detn Limit	0.01	0.01	0.01	10
381042	0.17	0.45	0.19	70
381043	0.02			40
381044	0.01			20
381045	0.03			40
381045 Rpt	0.02			40
381046	0.01			20
381047	0.19	0.35	0.21	40
381048	0.02			40
381049	0.01			30
381050	0.02			40
381051	0.01			10
381052	0.01			<10
381052 Rpt	<0.01			<10
381053	<0.01			20
381054	0.02			30
381055	0.01			<10
381056	0.01			10
381056 Rpt	0.01			10
381057	0.01			10
381058	0.19	0.21		30
381059	0.14			10
381060	0.09			<10
381061	0.02			<10
381062	<0.01			<10
381063	0.04			40
381064	0.01			60
381065	0.06			400
381066	0.06			510
381067	0.10			510
381068	0.02			150
381069	0.01			110
381069 Rpt	<0.01			100
381070	0.02			90
381070 Rpt	0.02			90
381071	0.02			40
381072	0.12	0.17		20
381072 Rpt	0.18			40
381073	0.23	0.28		10
381074	0.13			<10
381075	0.06			<10
381076	0.06			<10
381077	0.01			20
381078	0.10			10
381079	0.02			10
381080	0.01			<10
381081	0.01			<10
381082	<0.01			<10
381083	<0.01			<10
381084	0.06			300
381085	0.01			50
381086	0.03			100
381087	0.01			110

Reference No: P61611 ATTN: G McDONALD

	Au ppm	Au(R1) ppm	Au(R2) ppm	As ppm
Detn Limit	0.01	0.01	0.01	10
381088	0.01			80
381089	0.06			490
381089 Rpt	0.06			520
381090	0.02			80
381091	0.01			30
381092	0.01			400
381093	0.01			70
381094	0.01			40
381094 Rpt	<0.01			30
381095	0.01			70
381096	0.01			30
381096 Rpt	0.01			20
381097	0.08			390
381098	0.31	0.23	0.35	1140
381099	0.09			710
381100	0.05			90
381101	0.03			90
381102	0.02			20
381103	0.05			240
381104	0.09			540
381105	0.33	0.38		2180
381106	0.02			230
381107	0.02			100
381107 Rpt	0.02			80
381108	0.01			90
381109	0.01			<10
381110	0.03			20
381111	0.01			<10
381112	0.01			<10
381113	0.01			<10
381114	0.04			30
381115	0.01			20
381116	0.03			50
381117	0.01			40
381117 Rpt	0.01			40
381118	0.02			50
381118 Rpt	0.02			50
381119	0.04			550
381120	0.05			70
381121	0.04			90
381122	0.11	0.12		890
381123	0.03			60
381124	0.01			30
381125	0.02			100
381126	0.39	0.36		1700
381127	0.01			140
381128	<0.01			50
381129	0.02			50
381130	0.03			200
381131	0.04			260
381132	0.06	0.06		180
381133	<0.01			40

Reference No: P61611 ATTN: **G McDONALD** Page: 3

	Au ppm	Au(R1) ppm	Au(R2) ppm	As ppm
Detn Limit	0.01	0.01	0.01	10
381133 Rpt	<0.01			40
381134	0.02			10
381134 Rpt	0.02			50
381135	0.02			40
381136	<0.01			40
381137	0.03			220
381138	0.01			140
381139	<0.01			50
381140	0.02			90
381141	0.02			120
381142	0.09			180
381143	0.14	0.12		210
381144	0.06			70
381145	0.04			40
381145 Rpt	0.02			50
381146	0.16			440
381147	0.01			20
381148	0.01			50
381149	0.06	0.06		30
381150	<0.01			<10
381151	<0.01			<10
381152	<0.01			<10

****

Au, Au(R1),
Technique - Fire Assay on a 50 gram charge

Au(R2),
Technique - Aqua regia digestion

As,
Technique - AAS

END OF REPORT

329600

MinLab

MINCULTURE LABORATORIES PTY LTD ACN 008 960 174 TRUSTEE FOR THE MINLAB UNIT TRUST TRADING AS MINLAB

18A Denninup Way
MALAGA WA 6062
Tel: (09) 249 5277
Fax: (09) 249 5323

257A Forrest Street
KALGOORLIE WA 6430
Tel: (090) 21 5664
Fax: (090) 91 2200

Lot 484 Criddle St
MT MAGNET WA 6638
Tel: (099) 634 532
Fax: (099) 634 531

ANALYTICAL REPORT

Reference No: P61622

Date: 13 SEP 95

Samples Received: 07 SEP 95
Order Number : 9427
Submission Sheet: 9427
Project Number : N/A
Samples in Batch: 81

THIS REPORT HAS BEEN PREPARED FOR

THE RESOLUTE SAMANTHA GROUP

AND SHOULD BE READ IN CONJUNCTION WITH THE FINAL PAGE

Authorised by: A.J. Ferguson

ATTN: G McDONALD
THE RESOLUTE SAMANTHA GROUP
MANGANA RD
FINGAL TAS 7214

Reference No: P61622 · **ATTN: G McDONALD**

	Au ppm	Au(R1) ppm	As ppm
Detn Limit	0.01	0.01	10
381153	0.02		70
381154	0.01		40
381155	0.01		40
381156	<0.01		40
381157	0.01		70
381158	<0.01		30
381158 Rpt	<0.01		40
381159	0.01		20
381160	<0.01		60
381161	<0.01		30
381162	<0.01		<10
381163	<0.01		10
381164	0.06		80
381165	<0.01		20
381166	0.01		10
381167	<0.01		20
381168	<0.01		<10
381169	0.03		200
381169 Rpt	0.03		200
381170	0.01		10
381171	0.01		<10
381171 Rpt	0.01		<10
381172	0.03		50
381173	0.01		80
381174	0.01		20
381175	0.01		10
381176	0.01		40
381177	0.07	0.08	1300
381178	0.01		80
381178 Rpt	0.01		80
381179	0.01		40
381179 Rpt	<0.01		60
381180	0.02		120
381181	0.10	0.07	200
381182	0.01		30
381183	<0.01		<10
381184	<0.01		20
381184 Rpt	0.01		10
381185	<0.01		<10
381186	<0.01		<10
381187	<0.01		<10
381188	<0.01		<10
381189	<0.01		<10
381190	<0.01		<10
381191	0.02		60
381192	0.03		20
381193	0.01		10
381194	0.01		20
381195	<0.01		<10
381196	<0.01		10
381196 Rpt	<0.01		<10
381197	<0.01		<10

Reference No: P61622 **ATTN: G McDONALD**

	Au ppm	Au(R1) ppm	As ppm
Detn Limit	0.01	0.01	10
381198	<0.01		20
381199	<0.01		20
381200	<0.01		10
381201	<0.01		<10
381201 Rpt	<0.01		<10
381202	<0.01		10
381203	<0.01		<10
381204	<0.01		<10
381205	<0.01		10
381206	<0.01		<10
381207	<0.01		<10
381208	<0.01		<10
381209	<0.01		<10
381210	<0.01		10
381211	<0.01		<10
381211 Rpt	<0.01		<10
381212	<0.01		<10
381213	0.01		250
381214	<0.01		60
381215	0.01		120
381216	<0.01		40
381217	0.01		60
381218	0.06	0.06	110
381219	<0.01		30
381220	<0.01		30
381221	<0.01		<10
381222	<0.01		20
381223	<0.01		10
381224	<0.01		20
381225	<0.01		20
381226	0.01		20
381226 Rpt	<0.01		20
381227	<0.01		<10
381228	<0.01		<10
381229	<0.01		<10
381230	<0.01		10
381231	<0.01		<10
381231 Rpt	<0.01		<10
381232	<0.01		<10
381233	<0.01		<10

****

Au, Au(R1),
Technique - Fire Assay on a 50 gram charge

As,
Technique - AAS

END OF REPORT

329604

MinLab

MINCULTURE LABORATORIES PTY LTD ACN 008 960 174 TRUSTEE FOR THE MINLAB UNIT TRUST TRADING AS MINLAB

18A Denninup Way
MALAGA WA 6062
Tel: (09) 249 5277
Fax: (09) 249 5323

257A Forrest Street
KALGOORLIE WA 6430
Tel: (090) 21 5664
Fax: (090) 91 2200

Lot 484 Criddle St
MT MAGNET WA 6638
Tel: (099) 634 532
Fax: (099) 634 531

ANALYTICAL REPORT

Reference No: P61663

Date: 21 SEP 95

Samples Received: 14 SEP 95
Order Number : K9428
Submission Sheet: K9428
Project Number : N/A
Samples in Batch: 119

THIS REPORT HAS BEEN PREPARED FOR

THE RESOLUTE SAMANTHA GROUP

AND SHOULD BE READ IN CONJUNCTION WITH THE FINAL PAGE

Authorised by: A.J. Ferguson

ATTN: G McDONALD
THE RESOLUTE SAMANTHA GROUP
MANGANA RD
FINGAL TAS 7214

Reference No: P61663 **ATTN: G McDONALD**

	Au ppm	Au(R1) ppm	As ppm
Detn Limit	0.01	0.01	10
381234	0.08	0.06	40
381235	0.03		30
381236	0.01		<10
381237	0.01		10
381238	<0.01		10
381239	<0.01		20
381240	<0.01		30
381240 Rpt	<0.01		10
381241	<0.01		20
381242	0.02		20
381243	0.01		<10
381244	<0.01		10
381245	0.11		40
381246	<0.01		30
381247	0.01		20
381247 Rpt	<0.01		10
381248	<0.01		10
381249	0.04		20
381250	0.14	0.12	<10
381251	0.04		<10
381252	0.12		<10
381252 Rpt	0.10		<10
381253	0.05		<10
381254	0.16		10
381255	0.03		<10
381255 Rpt	0.03		30
381256	0.05		70
381257	0.01		60
381258	0.07		70
381259	0.03		50
381259 Rpt	0.02		50
381260	0.02		30
381261	<0.01		60
381262	0.05		40
381263	0.01		20
381264	0.02		30
381265	0.01		<10
381266	0.01		40
381267	0.01		50
381268	0.05		60
381269	0.01		50
381270	0.10	0.09	960
381271	0.01		80
381272	<0.01		30
381273	0.02		90
381274	0.02		<10
381274 Rpt	0.02		10
381275	0.06		<10
381276	0.09		60
381277	0.02		<10
381278	0.02		90
381279	0.07		130

Reference No: P61663 **ATTN: G McDONALD**

	Au ppm	Au(R1) ppm	As ppm
Detn Limit	0.01	0.01	10
381280	0.11		160
381281	0.02		100
381282	0.04		90
381283	0.03		80
381284	0.14	0.13	1730
381285	0.01		80
381285 Rpt	0.01		60
381286	0.01		<10
381287	<0.01		<10
381288	<0.01		<10
381288 Rpt	0.01		10
381289	0.01		10
381290	0.02		<10
381291	0.01		<10
381292	0.04		<10
381293	0.06		<10
381294	0.12		30
381295	0.11		80
381295 Rpt	0.16		70
381296	0.03		40
381297	0.02		40
381298	0.08		180
381299	0.14	0.15	190
381300	0.06		60
381301	0.04		70
381302	0.04		140
381302 Rpt	0.03		270
381303	0.02		90
381304	0.01		50
381305	0.06		60
381306	0.05		40
381307	0.03		50
381307 Rpt	0.03		40
381308	0.03		20
381309	0.10		<10
381310	0.01		<10
381311	0.04		<10
381312	0.01		<10
381313	0.01		20
381313 Rpt	0.01		10
381314	0.04		50
381315	0.02		<10
381316	0.01		<10
381317	0.01		10
381318	0.01		<10
381319	0.07		<10
381319 Rpt	0.02		20
381320	0.03		160
381321	0.02		350
381322	0.01		250
381323	0.02		40
381324	0.04		160

Reference No: P61663 **ATTN: G McDONALD** Page: 3

	Au ppm	Au(R1) ppm	As ppm
Detn Limit	0.01	0.01	10
381325	0.02		60
381326	0.03		70
381327	0.01		10
381328	0.02		10
381329	0.01		20
381329 Rpt	0.02		<10
381330	0.01		<10
381331	<0.01		<10
381332	0.01		10
381333	0.02		20
381334	0.02		<10
381334 Rpt	0.01		<10
381335	0.02		10
381336	0.01		<10
381337	0.02		<10
381338	0.01		<10
381339	Sample definitely not received		
381339 Rpt	Sample definitely not received		

****

Au, Au(R1),
Technique - Fire Assay on a 50 gram charge

As,
Technique - AAS

END OF REPORT

329609

MinLab

MINCULTURE LABORATORIES PTY LTD ACN 008 980 174 TRUSTEE FOR THE MINLAB UNIT TRUST TRADING AS MINLAB

18A Denninup Way
MALAGA WA 6062
Tel: (09) 249 5277
Fax: (09) 249 5323

257A Forrest Street
KALGOORLIE WA 6430
Tel: (090) 21 5664
Fax: (090) 91 2200

Lot 484 Criddle St
MT MAGNET WA 6638
Tel: (099) 634 532
Fax: (099) 634 531

ANALYTICAL REPORT

Reference No: P61690

Date: 25 SEP 95

Samples Received: 19 SEP 95
Order Number : K09429
Submission Sheet: K09429
Project Number : TAS
Samples in Batch: 72

THIS REPORT HAS BEEN PREPARED FOR

THE RESOLUTE SAMANTHA GROUP

AND SHOULD BE READ IN CONJUNCTION WITH THE FINAL PAGE

Authorised by: A.J. Ferguson

ATTN: G McDONALD
THE RESOLUTE SAMANTHA GROUP
MANGANA RD
FINGAL TAS 7214

Reference No: P61690 **ATTN: G McDONALD** Page: 1

329610

	Au ppm	Au(R1) ppm	Au(R2) ppm	As ppm
Detn Limit	0.01	0.01	0.01	10
381339	0.01			20
381340	<0.01			<10
381341	<0.01			20
381342	<0.01			100
381343	0.02			30
381344	<0.01			170
381344 Rpt	<0.01			170
381345	0.01			130
381345 Rpt	<0.01			160
381346	0.03			180
381347	0.06			320
381348	0.02			70
381349	<0.01			<10
381350	0.30	0.21	0.22	1200
381351	0.28			170
381352	0.02			30
381353	<0.01			<10
381354	<0.01			<10
381355	<0.01			<10
381356	<0.01			<10
381357	0.02			20
381358	<0.01			30
381359	<0.01			20
381360	<0.01			10
381361	<0.01			30

Reference No: P61690 **ATTN: G McDONALD** Page: 2

	Au ppm	Au(R1) ppm	Au(R2) ppm	As ppm
Detn Limit	0.01	0.01	0.01	10
381362	<0.01			30
381363	<0.01			10
381364	<0.01			40
381365	<0.01			10
381366	0.06			200
381367	<0.01			30
381368	0.01			290
381369	0.02			350
381370	<0.01			50
381370 Rpt	<0.01			50
381371	0.02			100
381371 Rpt	0.02			80
381372	<0.01			60
381373	<0.01			230
381374	<0.01			220
381375	0.01			160
381376	0.01			460
381377	<0.01			190
381377 Rpt	<0.01	<0.01		220
381378	<0.01			40
381379	0.54	<0.01	<0.01	30
381380	<0.01	<0.01		20
381381	<0.01			20
381382	<0.01			40
381383	<0.01			<10
381384	<0.01			30
381384 Rpt	<0.01			30
381385	<0.01			30
381386	<0.01			30
381387	0.01			80

****

Au, Au(R1), Au(R2),
Technique - Fire Assay on a 50 gram charge

As,
Technique - AAS

END OF REPORT

329613

MinLab

MINCULTURE LABORATORIES PTY LTD ACN 008 960 174 TRUSTEE FOR THE MINLAB UNIT TRUST TRADING AS MINLAB

18A Denninup Way
MALAGA WA 6062
Tel: (09) 249 5277
Fax: (09) 249 5323

257A Forrest Street
KALGOORLIE WA 6430
Tel: (090) 21 5664
Fax: (090) 91 2200

Lot 484 Criddle St
MT MAGNET WA 6638
Tel: (099) 634 532
Fax: (099) 634 531

ANALYTICAL REPORT

Reference No: P61707

Date: 30 SEP 95

Samples Received: 25 SEP 95
Order Number : K9430
Submission Sheet: K9430
Project Number : TAS
Samples in Batch: 85

THIS REPORT HAS BEEN PREPARED FOR

THE RESOLUTE SAMANTHA GROUP

AND SHOULD BE READ IN CONJUNCTION WITH THE FINAL PAGE

Authorised by: A Ferguson
A.J. Ferguson

ATTN: G McDONALD
THE RESOLUTE SAMANTHA GROUP
MANGANA RD
FINGAL TAS 7214

Reference No: P61707 **ATTN: G McDONALD** Page: 1

	Au ppm	Au(R1) ppm	Au(R2) ppm	As ppm
Detn Limit	0.01	0.01	0.01	10
381388	<0.01			30
381389	<0.01			30
381390	<0.01			10
381391	<0.01			<10
381392	<0.01			<10
381392 Rpt	<0.01			<10
381393	0.02			10
381393 Rpt	0.03			20
381394	<0.01			<10
381395	0.01			<10
381396	<0.01			<10
381397	<0.01			<10
381398	<0.01			10
381399	<0.01			10
381400	<0.01			<10
381401	<0.01			10
381402	<0.01			10
381403	<0.01			<10
381404	<0.01			10
381404 Rpt	<0.01			<10
381405	<0.01			<10
381406	<0.01			<10
381407	<0.01			<10
381408	<0.01			<10
381409	<0.01			20
381410	0.01			110
381411	0.02			70
381412	<0.01			<10
381413	0.01			10
381414	<0.01			30
381415	<0.01			20
381416	<0.01			<10
381417	<0.01			<10
381418	<0.01			10
381419	0.02			60
381420	0.01			30
381420 Rpt	<0.01			40
381421	<0.01			50
381422	<0.01			70
381423	<0.01			150
381424	0.09			450
381425	0.17	0.18		340
381426	0.02			260
381427	0.01			100
381427 Rpt	0.01			60
381428	0.05			150
381428 Rpt	0.05			170
381429	0.03			150
381430	0.24	0.24		210
381431	0.07			90
381432	0.04			100
381432 Rpt	0.05			90

Reference No: P61707 **ATTN: G McDONALD**

	Au ppm	Au(R1) ppm	Au(R2) ppm	As ppm
Detn Limit	0.01	0.01	0.01	10
381433	0.01			30
381434	0.02			10
381435	<0.01			<10
381436	<0.01			<10
381437	<0.01			<10
381438	0.01			<10
381439	<0.01			<10
381440	<0.01			20
381441	<0.01			50

****

Au, Au(R1), Au(R2),
Technique - Fire Assay on a 50 gram charge

As,
Technique - AAS

END OF REPORT

329617

MinLab

MINCULTURE LABORATORIES PTY LTD ACN 008 980 174 TRUSTEE FOR THE MINLAB UNIT TRUST TRADING AS MINLAB

18A Denninup Way
MALAGA WA 6062
Tel: (09) 249 5277
Fax: (09) 249 5323

257A Forrest Street
KALGOORLIE WA 6430
Tel: (090) 21 5664
Fax: (090) 91 2200

Lot 484 Criddle St
MT MAGNET WA 6638
Tel: (099) 634 532
Fax: (099) 634 531

ANALYTICAL REPORT

Reference No: P61748

Date: 10 OCT 95

Samples Received: 03 OCT 95
Order Number : K9431
Submission Sheet: K9431
Project Number : TAS
Samples in Batch: 54

THIS REPORT HAS BEEN PREPARED FOR

THE RESOLUTE SAMANTHA GROUP

AND SHOULD BE READ IN CONJUNCTION WITH THE FINAL PAGE

Authorised by: A.J. Ferguson

ATTN: G McDONALD
THE RESOLUTE SAMANTHA GROUP
MANGANA RD
FINGAL TAS 7214

Reference No: P61748 **ATTN: G McDONALD** Page: 1

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
381551	14			100
381552	64			610

Reference No: P61748 **ATTN: G McDONALD** Page: 2

	Au ppb	Au(R1) ppb	Au(R2) ppb	As ppm
Detn Limit	1	1	1	10
381552 Rpt	68	31	36	570
381553	70			230
381554	1.22M	728	795	485
381555	38			270
381556	16			110
381557	300			250
381557 Rpt	400			310
381558	156			330

329620

MinLab

MINCULTURE LABORATORIES PTY LTD ACN 008 960 174 TRUSTEE FOR THE MINLAB UNIT TRUST TRADING AS MINLAB

18A Denninup Way
MALAGA WA 6062
Tel: (09) 249 5277
Fax: (09) 249 5323

257A Forrest Street
KALGOORLIE WA 6430
Tel: (090) 21 5664
Fax: (090) 91 2200

Lot 484 Criddle St
MT MAGNET WA 6638
Tel: (099) 634 532
Fax: (099) 634 531

ANALYTICAL REPORT

Reference No: P61775

Date: 17 OCT 95

Samples Received: 10 OCT 95
Order Number : K9432
Submission Sheet: K9432
Project Number : TAS
Samples in Batch: 150

THIS REPORT HAS BEEN PREPARED FOR

THE RESOLUTE SAMANTHA GROUP

AND SHOULD BE READ IN CONJUNCTION WITH THE FINAL PAGE

Authorised by: A.J. Ferguson

ATTN: G McDONALD
THE RESOLUTE SAMANTHA GROUP
MANGANA RD
FINGAL TAS 7214

Reference No: P61775 **ATTN: G McDONALD** Page: 1

	Au ppm	Au(R1) ppm	Au(R2) ppm	As ppm
Detn Limit	0.01	0.01	0.01	10
381451	0.03			10
381452	0.07			<10
381453	0.36	0.26		30
381454	0.14			10
381455	0.15			30
381456	2.53			60
381456 Rpt	2.38			50
381457	0.04			10
381457 Rpt	0.03			<10
381458	0.60	0.94	0.46	60
381459	0.20			50
381460	0.11			10
381461	0.11			200
381462	0.08			100
381463	0.13			500
381464	0.11			60
381465	0.17			560
381466	0.13			70
381467	0.07			70
381468	0.14			1290
381469	0.17			540
381470	0.15			930
381470 Rpt	0.13			920
381471	0.63	0.50	0.44	520
381472	0.44			700
381473	0.25			130
381474	0.45			340
381474 Rpt	0.52			320
381475	8.60	16.5	15.6	490
381476	0.50			570
381477	0.69			590
381478	0.29			830
381479	0.21			850
381480	0.25			240
381481	0.07			30
381482	0.03			110
381482 Rpt	0.03			120
381483	0.07			80
381484	0.55	0.47	0.64	70
381485	0.02			140
381486	0.25			90
381487	<0.01			30
381487 Rpt	<0.01			10
381488	0.25			20
381489	0.54	0.47	0.60	200
381490	0.17			740
381491	0.28			1290
381492	0.56			990
381493	0.06			890
381494	0.01			30
381495	0.11			<10
381496	0.09			<10

Reference No: P61775 **ATTN: G McDONALD**

	Au ppm	Au(R1) ppm	Au(R2) ppm	As ppm
Detn Limit	0.01	0.01	0.01	10
381497	0.36	0.27	0.27	<10
381498	0.10			10
381499	0.14			<10
381500	0.03			<10
381501	0.19			10
381502	0.40			<10
381502 Rpt	0.50			<10
381503	0.04			<10
381503 Rpt	0.09			<10
381504	0.05			20
381505	0.17			10
381506	0.17			<10
381507	0.34	0.40	0.35	<10
381508	0.15			<10
381508 Rpt	0.16			<10
381509	0.12			<10
381510	0.14			<10
381511	0.04			250
381512	0.09			360
381513	0.06			310
381514	1.01			2940
381515	0.20			800
381516	1.29	0.77	0.84	3830
381517	0.37			2810
381518	0.09			90
381519	0.13			1810
381520	0.79	2.50	0.77	2400
381521	0.19			1430
381522	0.05			290
381523	0.02			10
381523 Rpt	0.03			<10
381524	0.16			50
381525	0.07			60
381526	0.50			10
381527	0.77			40
381528	0.43			30
381528 Rpt	0.30			40
381529	0.22			70
381529 Rpt	0.19			40
381530	0.16			160
381531	0.01			280
381532	<0.01			240
381533	0.01			150
381534	0.01			50
381535	<0.01			30
381536	0.05			260
381537	0.03			260
381538	0.02			190
381539	0.09	0.10		470
381540	0.03			230
381540 Rpt	0.02			250
381541	0.04			290

Reference No: P61775 **ATTN: G McDONALD** Page: 3

	Au ppm	Au(R1) ppm	Au(R2) ppm	As ppm
Detn Limit	0.01	0.01	0.01	10
381542	0.09			600
381543	0.12			650
381543 Rpt	0.12			620
381544	<0.01			50
381545	<0.01			<10
381546	<0.01			<10
381547	0.01			60
381548	0.01			20
381549	<0.01			<10
381549 Rpt	<0.01			<10
381550	<0.01			<10
381559	0.16			180
381560	0.06			250
381561	0.37	0.37	0.38	500
381562	0.04			390
381563	0.07			150
381564	0.14			200
381565	0.72	0.72	0.69	360
381566	0.03			50

****

Au, Au(R1), Au(R2),
Technique - Fire Assay on a 50 gram charge

As,
Technique - AAS

END OF REPORT

329625

Analabs

Analabs Pty. Ltd.
A.C.N. 004 591 664

Phone (004) 316837 | 14 Thirkell St. COOEE TAS 7320 | Fax (004) 318890

ANALYTICAL REPORT No. 112400.60.11318

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

INVOICE TO:
John Ikstrums
Resolute Resources Limited
P. O. Box 7232
Cloisters Square
PERTH WA 6000

ORDER No.	PROJECT
G MacDonald	

DATE RECEIVED	RESULTS REQUIRED
12/10/95	ASAP

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES
1	25/10/95	1

TOTAL No. OF SAMPLES: 20

SAMPLE NUMBERS	SAMPLE DESCRIPTION	ELEMENT/METHOD
38163-82	RC Prep : GP032	As/HA101.As/GA101 Au.Au(R)/GG326

RESULTS TO
John Ikstrums
Resolute Resources Limited
P. O. Box 7232
Cloisters Square
PERTH WA 6000

RESULTS TO
Mr Grant MacDonald
Mangana Road
FINGAL TAS 7214

RESULTS TO

REMARKS

AUTHORISED OFFICER

329626

Analabs

Analabs Pty. Ltd.
A.C.N. 00430766

ANALYTICAL DATA

SAMPLE PREFIX	REPORT No.	REPORT DATE	CLIENT ORDER No.	PAGE
	112400.60.11318	25/10/95	G MacDonald	1 OF 1

	SAMPLE No.	Au	Au(R)	As	As					
METHOD		GG326	GG326	HA101	GA101					
1	381613	8.833	8.367	>100	342					
2	381614	0.300	-	>100	425					
3	381615	0.733	-	>100	455					
4	381616	0.275	-	>100	621					
5	381617	0.092	-	60	-					
6	381618	0.030	-	>100	100					
7	381619	0.083	-	89	-					
8	381620	0.550	0.150	57	-					
9	381621	0.075	-	82	-					
10	381622	0.483	-	80	-					
11	381623	0.075	-	>100	100					
12	381624	0.142	-	>100	100					
13	381625	0.013	0.013	>100	106					
14	381626	0.056	-	>100	401					
15	381627	0.075	-	>100	135					
16	381628	1.587	1.660	>100	5019					
17	381629	0.031	-	>100	129					
18	381630	0.011	-	90	-					
19	381631	1.867	0.875	>100	126					
20	381632	0.192	-	>100	158					
21										
22										
23										
24	DETECTION	0.001	0.001	1	100					
25	UNITS	ppm	ppm	ppm	ppm					

Results in ppm unless otherwise specified IS = insufficient sample SNR = sample not received

AUTHORISED OFFICER

329627

C/F

RESOLUTE SAMANTHA LIMITED

ANNUAL REPORT
1995

VOLUME 5/5

EL 17/91
"MATHINNA"

Grant MacDonald
February 1996
GM609:da

5 411 000N

5 410 000N

5 409 000N

5 408 000N

5 407 000N

5 406 000N

5 405 000N

5 404 000N

5 403 000N

572 000E

573 000E

574 000E

575000E

576 000E

577 000E

GOLDEN HORSESHOE

OLD RIVER CHANNEL

CITY OF MELBOURNE

VOLUNTEER

GOLDEN STAIRS

ENTERPRISE

VOLUNTEER CONSOLIDATED

OLD BOYS

CHESTER AND MURRAY

CITY OF HOBART

GOLDEN GATE EXTENDED

CALEDONIAN

NORTH GOLDEN GATE

GOLDEN LADDER

GOLDEN HINGES

NEW GOLDEN GATE

ZONE

VICTORIAN GOLDEN GATE

NORTH ELDORADO

SOUTH GOLDEN GATE

MAIN SLIDE

NEW ELDORADO

OF

MINERS DREAM

SOUTH MINERS DREAM

GLADSTONE

NUMEROUS

TIGHT

JUBILEE

MOUNTAINEER

FOLDS

0348 0377 0397 0281 0287 0285 0359 0279 0276 0275 0277 0316 0294 0379 0385 0411 0536 0538 0558 0588 0556 0548 0546 0582 0652 0551 0508 0581 0516 0535 0517 0533 0501 0491 0494 0495 4480

1734-G 359-G

KEY

- Alluvial Cover
- Mathinna Beds - Ordovician to Early Devonian(?) quartzwacke turbidite sequence of interbedded sandstone, siltstone and mudstone
- 52 Bedding
- 88 Cleavage (S_1)
- 76 Cleavage (S_2)
- Wrench Fault (reactivated reverse fault? in case of main slide)
- Referse Fault - teeth on upper plate
- Shear zone (interpreted)
- Major Syncline
- Major Anticline
- Old Workings - adit, shaft,
- Diamond drill hole

AMG N TN MN

GRID CONVERGENCE 0.6°

14.7°

329628

96-3843

VOLUME 5 OF 5 ANNUAL REPORT
1995 EL 17/91 MATHINNA - RESOLUTE
SAMANTHA LTD, MACDONALD C.

RESOLUTE RESOURCES LIMITED

MATHINNA PROJECT
GEOLOGY
MATHINNA AREA

AUTHOR:	SCALE: 1 : 10 000	PLAN NO:
DRAWN: CO-ORDINATED DRAFTING	DATE: FEB '95	FIGURE 9.

5 cm

574 000E
574 100E
574 200E
574 300E
574 400E
574 500E
574 600E
574 700E

5 408 300N
5 408 200N
5 408 100N
5 408 000N
5 407 900N
5 407 800N
5 407 700N
5 407 600N
5 407 500N
5 407 400N
5 407 300N
5 407 200N

WELCOME STRANGER
12m
6m

MT5 (-60° to 090° TN) 67m
MT 6 (-60° to 090° TN)
MT20 60m (-60° to 090°TN)
MT21 54m (-60° to 090°TN)
67m

GOLDEN STAIRS
No.1 REEF 70m level
No.1 REEF 45m level
67
71m
70m level
45m level
72
No.2 REEF
point of intersection of reefs (F)

MT 7 (-60° to 090° TN) 84 m

CONSIDERABLE AMOUNT OF GOLD WON BY SURFACE LOAMING IN THIS AREA

77m
MT9 (-60° to 270°TN)
MT4 (-60° to 090°TN)
63m 85m
MT 8 (-60° to 270°TN)

MT10 (-60° to 090°TN) 79m

MT19 (-57° to 090°TN) 70m
MT18 (-55° to 090°TN) 77m

TMD DDH 1927 (N) (-64° to 114° TN) 79m
Immediate quartzite
MT16 (-55° to 090°TN)
MT15 (-55° to 090°TN) 97m
Banded quartz-hematite formation - pisc (F)
MT14 (-60° to 090°TN)
42.5m 39.5m
MT 3 (-60° to 270°TN)
Massive quartz-hematite formation - pisc (F)
quartz in slate
EOH 173.7m

ENTERPRISE
10m level
21m level
No.1 23m
21m level
No.2 23m
15m level
Winze down 8m
open trench
Chinese store

HEN AND CHICKENS
"tunnel driven from the main road beneath where the Chinese store is now and winzes were sunk on an east and west lode which intersects a main north and south reef,...3oz dirt used to be won... but at excessive cost." (T)

× point of intersection of reefs (F)
MT 2 (-60° to 090° TN) 84m
MT 1 (-60° to 090° TN) 79m

No. 3 30m "Fair Prospects" (m)

85m
MT 12 (-50° to 270° TN)

88m
MT 13 (-58° to 270°TN)
10998 M 61m

GOLDEN SPUR 32m
MOORES SHAFT 46m
Steep 0·6m "payable" (F)

STAR OF MATHINNA
46m level
4.8m
0·6m Lode barren
56 1m barren
10m
60

KEY
- Alluvial cover
- Mathinna beds
- Bedding (S_0)
- Primary cleavage (S_1)
- Secondary cleavage (S_2)
- Fault
- Anticline major as indicated
- Syncline major as indicated
- Representative or major vein orientation
- Road, major: minor
- Contour, metres a.s.l.
- Creek
- (N) Reference to old reporting (N) Nye (1927) (T) Twelvetrees (1906) (F) Finucane (1935) (M) Montgomery (1892)
- TMD DDH Diamond drill hole
- MT5 RC Drill hole

SHEET INDEX
1
2
3
4

5 cm

GRID CONVERGENCE 0·6°
AMG N TN MN 14.7°

96-3843
VOLUME 5 OF 5 ANNUAL REPORT
1996 EL 17/91 MATHINNA - RESOLUTE
SAMANTHA LTD - MOUNT LYELL

RESOLUTE RESOURCES LIMITED
GEOLOGY 329629
MATHINNA PROJECT
SHEET 1

AUTHOR:	SCALE: 1 : 1000	PLAN NO:
DRAWN: CO-ORDINATED DRAFTING	DATE: FEB '95	FIGURE 10

574 100E 574 200E 574 300E 574 400E 574 500E 574 600E 574 700E 574 800E

5 407 200N 5 407 100N 5 407 000N 5 406 900N 5 406 800N 5 406 700N 5 406 600N 5 406 500N 5 406 400N 5 406 300N 5 406 200N 5 406 100N

84m MT 11 (-50° to 270° TN)

OLD GLENCOE

122m LEVEL

GOLDEN GATE EXTENDED

OLD PERSEVERANCE

CALEDONIAN

GOLDEN LADDER ADIT

MT24 (-50° to 090° TN) 124m

STRONG CLEAVAGE AND OCCASIONAL PUGGY FAULTS

So STEEP TO WEST

REEF / SHEAR

STRONGLY DEFORMED MAJOR SHEAR ZONE

GG3 -50 to 060mN

NUMEROUS PARASITIC FOLDS VERGING TO EAST

GOLDEN HINGES

MULLOCK QUARRY

TAS CONSOLS. (NORTH GOLDEN GATE)

No.11 Anticline at 335m's in N.GG. No.15 and between 305m and 335m in T.C. (T)

NEW GOLDEN GATE

TAS CONSOLS. 11000 ozs. gold @ 14·5 g/t

LEVEL	DEPTH (m)
No. 8	335
No. 11	427
No. 12	457

(not all levels shown)

NOTE: WORKINGS ON NEW GOLDEN GATE AND TAS CONSOLS. ARE BASED ON OLD MINE PLANS OF VARIABLE QUALITY AND SO INACCURACIES ARE LIKELY TO EXIST.

NEW GOLDEN GATE 254 000 ozs. @ 28·6 g/t

LEVEL	DEPTH (m)
Adit	
No. 3	72
No. 4	96
No. 6	152
No. 8	213
No. 9	244
No. 12	335
No. 13	366
No. 14	396
No. 15	427
No. 16	457
No. 17	488

(not all levels shown)

STRUCTURAL READINGS IN GOLDEN GATE AREA MARKED X ARE SURFACE READINGS

SLUICE

SECOND SLUICE No.13 LEVEL (T)

MAIN SLUICE No.13 LEVEL (T)

MAIN SLUICE AT No.4 LEVEL (T)

SLUICE (POSITION)

COUNTRY (T)

DISTURBED

REEF FORMATION (T)

REEF CHANNEL (T)

NO DESCRIPTION AVAILABLE (T or F)

ANTICLINE? (T) (POSITION - ORIENTATION)

KEY

- Alluvial cover
- Battery sands
- Mathinna beds
- Bedding (S_o)
- Primary cleavage (S_1)
- Secondary cleavage (S_2)
- Fault
- Anticline major as indicated
- Syncline major as indicated
- Representative or major vein orientation
- Main Reef
- Loanes Reef
- East Reef
- West Reef
- Zig Zag etc. Reefs — Golden Gate Reefs
- (later, poorly described workings)
- Road major minor
- Contour metres a.s.l.
- Creek
- (N) Reference to old reporting (N) Nye (1927) (T) Twelvetrees (1906) (F) Finucane (1935) (M) Montgomery (1892)
- Percussion drill hole (Epoch)
- GG3 Diamond drill hole
- MT24 RC drill hole

NEW SHAFT 37m

NORTH ELDORADO 33m

6m

GG2 -50 to 058° MN

S_o SUBVERTICAL

SHEAR ZONE

SNAKE REEF SHAFT SHALLOW

DIPS TO WEST

GG1 -50 to 270° MN

EAST DIPPING (T)

61m LEVEL

122m LEVEL

QUARTZ FORMATION

QUARTZ FORMATION (T)

SOUTH GOLDEN GATE

SHEAR ZONE

REEF SHEAR ZONE

SHEET INDEX

1 2 3 4

5 408 000N 5 407 000N 5 406 000N 5 405 000N 5 404 000N

574 000E 575 000E

AMG N TN MN GRID CONVERGENCE 0.6° 14.7°

5 cm

96-3843

VOLUME 5 OF 5 ANNUAL REPORT 1995 EL 17/91 MATHINNA - RESOLUTE SAMANTHA LTD. - MACDONALD C.

RESOLUTE RESOURCES LIMITED

GEOLOGY MATHINNA PROJECT

SHEET 2

32963 0

AUTHOR:	SCALE: 1 : 1000	PLAN NO:
DRAWN: CO-ORDINATED DRAFTING	DATE: FEB '95	FIGURE 11

574 300E
574 400E
574 500E
574 600E
574 700E
574 800E
574 900E
575 000E

5 406 100N
5 406 000
5 405 900N
5 405 800N
5 405 700N
5 405 600N
5 405 500N
5 405 400N
5 405 300N
5 405 200N
5 405 100N
5 405 000N

NEW ELDORADO

SYNCLINE

400

350

MINERS DREAM

Adit level 12 m
Incline start
15m level
Sw horizontal
(-25°) on reef
31m level

27 83 32 85 85m

E. L. 44/94

SOUTH MINER'S DREAM

GLADSTONE

HORSESHOE

Channel samples 379784 - 379786

BLOW OF BUCKY QUARTZ

10m level 10m

SHEET INDEX

1 2 3 4

AMG TN MN

GRID CONVERGENCE 0.6°

14.7°

KEY

- Alluvial cover
- Mathinna beds
- Bedding (S_0)
- Primary cleavage (S_1)
- Secondary cleavage (S_2)
- Fault
- Anticline major as indicated
- Syncline major as indicated
- Representative or major vein orientation
- Road, major; minor
- Contour, metres a.s.l.
- Creek

RESOLUTE RESOURCES LIMITED

GEOLOGY

MATHINNA PROJECT

SHEET 3

5 cm

AUTHOR:		SCALE: 1 : 1000	PLAN NO:
DRAWN:	CO-ORDINATED DRAFTING	DATE: FEB '95	FIGURE 12

32631

96-3843

VOLUME 5 OF 5 ANNUAL REPORT
1995 EL 17/91 MATHINNA - RESOLUTE
SAMANTHA LTD - MACDONALD G

RESOLUTE RESOURCES LTD
CHINAMANS HILL PROSPECT
GEOLOGY
329632

DRAWN O HEDDITCH	SCALE 1:1000
DATE JUNE 1995	CHECKED

Figure 13.

5 cm

573 900 m E
573 800 m E
573 700 m E
573 600 m E
573 500 m E
573 400 m E

5 419 600 m N
5 419 700 m N
5 419 800 m N
5 419 900 m N
5 420 000 m N
5 420 100 m N
5 420 200 m N
5 420 300 m N
5 420 400 m N
5 420 500 m N
5 420 600 m N

KEY
Costean
RC Drill hole
MT26

N°3 COSTEAN

SOUTH COSTEAN N°2

NORTH COSTEAN N°1
MT 26
(-50° to 090°TN)
90m

MATHINNA BEDS

QUATERNARY ALLUVIALS

10m SHAFT ON ALLUVIALS

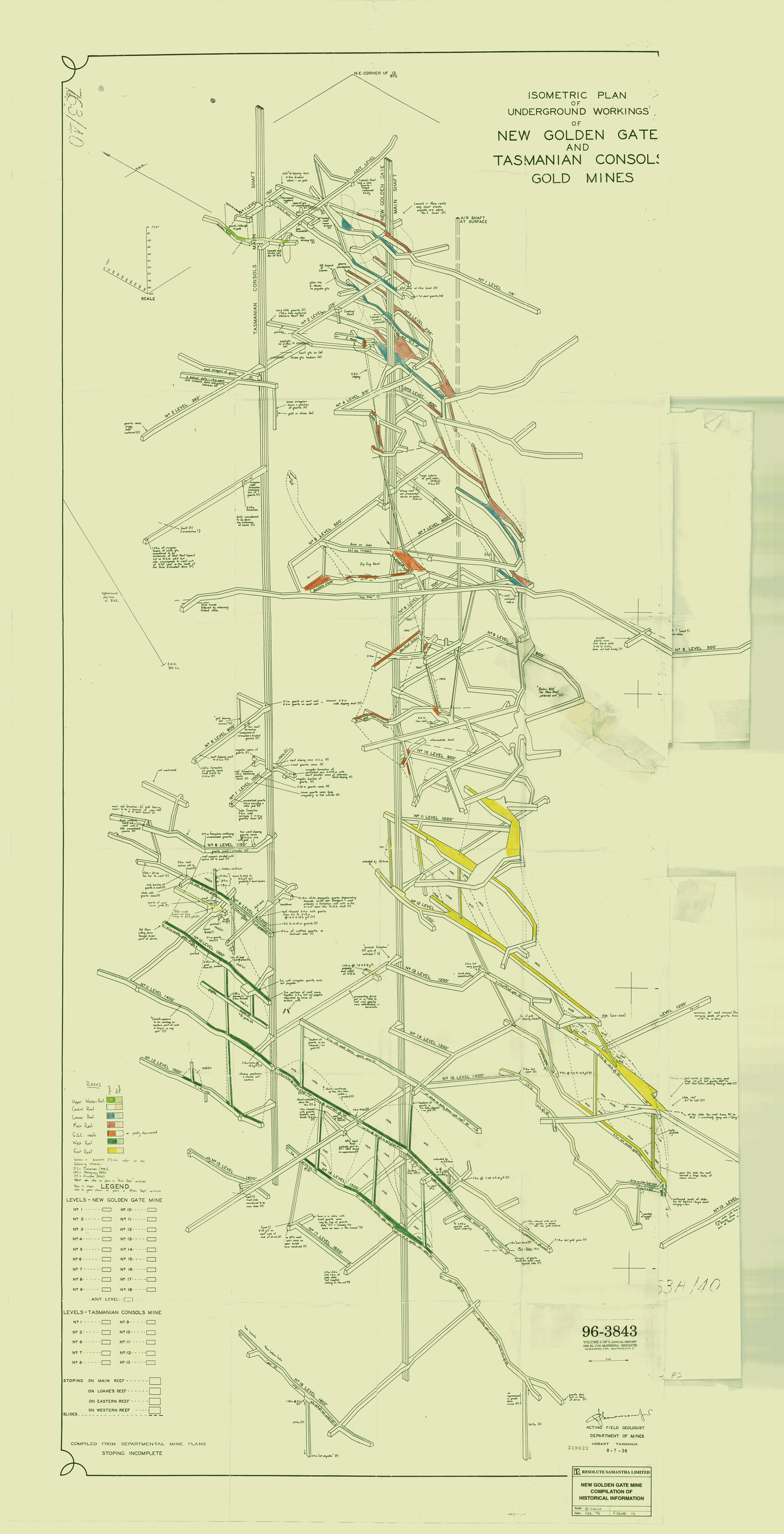
PERCHED RIVER CHANNEL

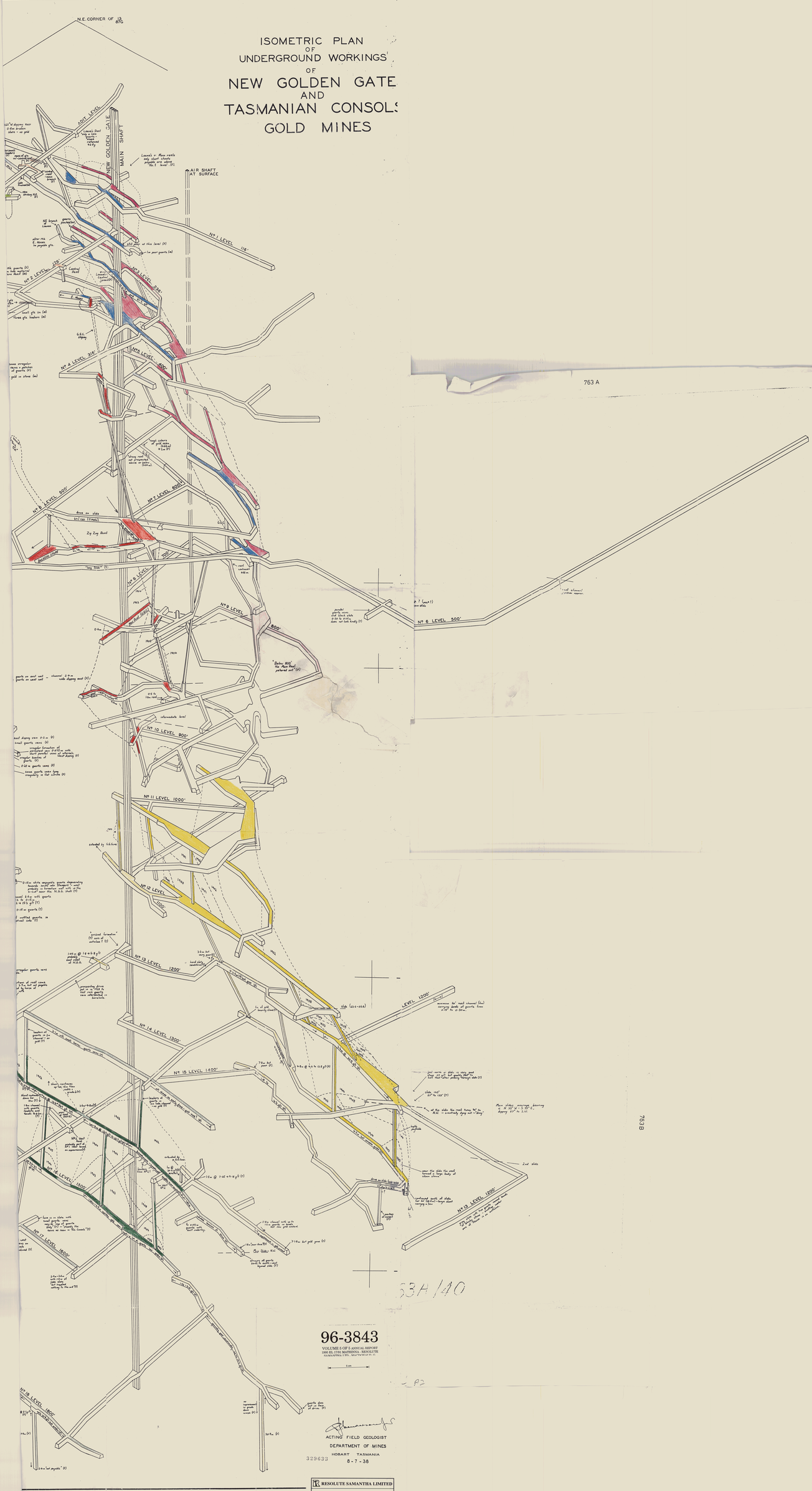
CONJUGATE VEINS ASSOCIATED WITH MINOR SHEARS AT 35 TO 049 (TN) SHEARS ARE NE DIPPING THRUSTS

MATHINNA BEDS

GOLDEN HORSESHOE

33m


ISOMETRIC PLAN
OF
UNDERGROUND WORKINGS
OF
NEW GOLDEN GATE
AND
TASMANIAN CONSOLS
GOLD MINES
N.E. CORNER OF 13
87G
MAIN SHAFT
TASMANIAN CONSOLS
NEW GOLDEN GATE
MAIN SHAFT
ADIT LEVEL
AIR SHAFT AT SURFACE
No 1 LEVEL 118'
No 2 LEVEL 226'
No 3 LEVEL 336'
No 4 LEVEL 446'
No 5 LEVEL 556'
No 6 LEVEL 666'
No 7 LEVEL 776'
No 8 LEVEL 886'
No 9 LEVEL 996'
No 10 LEVEL 1106'
No 11 LEVEL 1216'
No 12 LEVEL 1326'
No 13 LEVEL 1436'
No 14 LEVEL 1546'
No 15 LEVEL 1656'
No 16 LEVEL 1766'
No 17 LEVEL 1876'
No 18 LEVEL 1986'
SCALE
REEFS
Upper Western Reef
Central Reef
Lower Reef
Main Reef
E.&C. reefs
West Reef
East Reef
LEGEND
LEVELS - NEW GOLDEN GATE MINE
ADIT LEVEL
LEVELS - TASMANIAN CONSOLS MINE
STOPING ON MAIN REEF
ON LOANE'S REEF
ON EASTERN REEF
ON WESTERN REEF
SLIDES
COMPILED FROM DEPARTMENTAL MINE PLANS
STOPING INCOMPLETE
96-3843
VOLUME 2 OF 2 ANNUAL REPORT
1988 EL 17/91 MATHINNA - RESOLUTE
SAMANTHA LTD., MAITLAND ST. (?)
ACTING FIELD GEOLOGIST
DEPARTMENT OF MINES
HOBART TASMANIA
8-7-38
329633
53H/40
RESOLUTE SAMANTHA LIMITED
NEW GOLDEN GATE MINE
COMPILATION OF
HISTORICAL INFORMATION


N.E. CORNER OF 13 BTG
ISOMETRIC PLAN
OF
UNDERGROUND WORKINGS
OF
NEW GOLDEN GATE
AND
TASMANIAN CONSOLS
GOLD MINES
NEW GOLDEN GATE MAIN SHAFT
AIR SHAFT AT SURFACE
No 1 LEVEL 118'
No 2 LEVEL 215'
No 3 LEVEL 316'
No 4 LEVEL 416'
No 5 LEVEL 500'
No 6 LEVEL 600'
No 7 LEVEL 700'
No 8 LEVEL 800'
No 9 LEVEL 900'
No 10 LEVEL 1000'
No 11 LEVEL 1100'
No 12 LEVEL 1200'
No 13 LEVEL 1300'
No 14 LEVEL 1400'
No 15 LEVEL 1500'
No 16 LEVEL 1600'
No 17 LEVEL 1800'
No 18 LEVEL 1900'
No 19 LEVEL 2000'
763 A
763B
96-3843
VOLUME 5 OF 5 ANNUAL REPORT
1988 EL 17/91 MATHINNA - RESOLUTE SAMANTHA LTD., MAUNOIR PTY. LTD.
ACTING FIELD GEOLOGIST
DEPARTMENT OF MINES
HOBART TASMANIA
329633
8 - 7 - 38
RESOLUTE SAMANTHA LIMITED
NEW GOLDEN GATE MINE
COMPILATION OF
HISTORICAL INFORMATION
Scale: AS SHOWN
Date: FEB. '96
FIGURE 14

572 000 573 000 574 000 575 000 576 000 577 000

147°55'

5411 000 5410 000 5409 000 5408 000 5407 000 5406 000 5405 000 5404 000 5403 000

41°30'

NEW GOLDEN GATE

147°55'

SURVEY SPECIFICATIONS

Contractor	:	Geo Instruments
Aircraft	:	Helicopter
Instrumentation	:	
Survey Date	:	1990
Sample Interval	:	
Flight Line Spacing	:	200 metres
Flight Line Direction	:	090-270 degrees
Tie Line Spacing	:	400 metres
Mean Terrain Clearance	:	74 metres

PROCESSING DETAILS

The magnetic data have been corrected for regional gradient by subtraction of IGRF and decorrugated before contouring.

Processing : Southern Geoscience
Supervision : J. Ashley

PLOT SPECIFICATIONS

First Level Contours	:	.1 nT
Second Level Contours	:	.5 nT
Third Level Contours	:	2 nT
Fourth Level Contours	:	10 nT
Grid Cell Size	:	12.5mN x 12.5mE

96-3843

VOLUME 5 OF 5 ANNUAL REPORT
1995 EL 17/91 MATHINNA - RESOLUTE
SAMANTHA LTD MACDONALD C.

N

200 0 200 400 600

AUSTRALIAN MAP GRID
AGD84 SPHEROID
SOUTHERN HEMISPHERE

5 cm

SOUTHERN GEOSCIENCE CONSULTANTS

RESOLUTE / SAMANTHA GROUP

NORTH EAST TASMANIA

MATHINNA REGION HELIMAG SURVEY

CONTOURS OF MAGNETIC INTENSITY

SCALE 1:10,000	J. ASHLEY
DATE 08-05-1995	FIGURE 15

329634

NEW GOLDEN GATE MINE
MAIN SHAFT

A

DETAILS FROM "GOLDEN HINGES" ADIT

INCREASING PROPORTION OF SILTSTONES

COLLAPSED ADIT LEVEL

WESTERN REEF

CENTRAL REEF

CENTRAL AND WESTERN REEFS STRIKE 325° (TN)

MAIN, LOANE'S EAST AND WEST REEFS STRIKE 005° -10 015° (TN)

"MAIN" AND "LOANE'S" REEFS COME TOGETHER 30m's TO 50m's SOUTH OF THIS SECTION FROM No.1 LEVEL TO No.9 LEVEL

FURTHER REEFING IN THIS AREA POORLY DOCUMENTED

REPORTED BY TWELVETREES (1906)

"SECOND SLIDE"

"MAIN SLIDE"

HIGH ANGLE REVERSE FAULT REACTIVATED AS DEXTRAL WRENCH FAULT (?)

DISTURBED COUNTRY BETWEEN SLIDES (TWELVETREES, 1906)

HIGH ANGLE REVERSE FAULT REACTIVATED DEXTRAL WRENCH FAULT (?)

PROJECTED 150m ALONG STRIKE REPORTED BY TWELVETREES (1906)

ANTICLINE REPORTED IN SHAFT AT 335m LEVEL (TWELVETREES, 1906)

LOANE'S REEF

MAIN REEF

EAST REEF

1 LEVEL (35m)
2 LEVEL (54m)
3 LEVEL (72m)
4 LEVEL (96m)
5 LEVEL (122m)
6 LEVEL (152m)
7 LEVEL (183m)
8 LEVEL (213m)
9 LEVEL (244m)
10 LEVEL (274m)
11 LEVEL (305m)
12 LEVEL (335m)
13 LEVEL (366m)
14 LEVEL (396m)
15 LEVEL (427m)
16 LEVEL (457m)
17 LEVEL (488m)
18 LEVEL (549m)

MINE CONTINUES ON WINZES ON EAST AND WEST REEFS TO 580m

SHALES - SILTSTONES

A

DETAILS FROM "GOLDEN LADDER" ADIT, 150m NORTH

INCREASING PROPORTION OF SILTSTONES

KEY

- BEDDING
- CLEAVAGE
- FAULTS (MINOR, MAJOR) - INITIAL SENSE OF MOVEMENT SHOWN
- ZONE OF STRONG DEFORMATION SHEARING
- REEF

5 cm

RESOLUTE RESOURCES LIMITED

MATHINNA PROJECT
INTERPRETATIVE CROSS SECTION
NEW GOLDEN GATE MINE
LOOKING TOWARDS 008° (TN)

AUTHOR G.MacDONALD	SCALE 1:1000	PLAN No.
DRAWN O.HEDDITCH	DATE MAY 1995	FIGURE 16

329635

3000 E

3500 E

4000 E

4500 E

5000 E

5500 E

6000 E

8000N

7000N

6000N

329636

5 cm

metres
0 50 100 150 200 250 300 350

MINEMAP MINE PLANNING SOFTWARE

RESOLUTE SAMANTHA LTD

MATHINNA GRID

SHALLOW B-HORIZON SOIL SAMPLE NOS.

DRAWN :

SCALE 1 : 5000

DATE : 21 NOV 1995

CHECKED :

FIGURE 17

3000 E

3500 E

4000 E

4500 E

5000 E

5500 E

6000 E

5000N

CONTAMINATED

EL 44/94

7000N

43 N/89

EL 44/94

6000N

CONTAMINATION?

5000N

KEY

CONTOURS OF GOLD IN SOIL; 25, 50 & 100 ppb Au.

329637

5 cm

LEGEND

DRILLHOLE NOTATIONS

Location mark not shaded by value
Values shaded individually.

metres

0 50 100 150 200 250 300 350

MINEMAP MINE PLANNING SOFTWARE

RESOLUTE SAMANTHA LTD

MATHINNA GRID

SHALLOW AND DEEPER B-HORIZON Au SOIL RESULTS

DRAWN :

SCALE 1 : 5000

DATE : 28 NOV 1995

CHECKED :

FIGURE - 18

96-3843

VOLUME 5 OF 5 ANNUAL REPORT
1995 EL 17/91 MATHINNA - RESOLUTE
SAMANTHA LTD - MACDONALD, G.

2500 E

3000 E

3500 E

4000 E

4500 E

5000 E

10500 N

10000 N

9500 N

9000 N

EL 22/92

BASELINE

EL 17/91

5720000mE.

5408500mN

96-3843

VOLUME 5 OF 5 ANNUAL REPORT
1995 EL 17/91 MATHINNA - RESOLUTE
SAMANTHA LTD - MACDONALD, G.

329638

5cm

metres
0 50 100 150 200 250 300 350

MINEMAP MINE PLANNING SOFTWARE

RESOLUTE SAMANTHA LTD

CHWAMEN'S HILL

B-HORIZON SOIL SAMPLE NO1

DRAWN :	SCALE 1 : 5000
DATE : 23 NOV 1995	CHECKED :

FIGURE 19

2500 E

3000 E

3500 E

4000 E

4500 E

5000 E

10500 N

10000 N

9500 N

9000 N

5 72.000mE

5408500mN

96-3843

VOLUME 5 OF 5 ANNUAL REPORT
1995 EL 17/91 MATHINNA - RESOLUTE
SAMANTHA LTD - MACDONALD, G.

329639

5 cm

LEGEND
DRILLHOLE NOTATIONS

Au (ppb)
As (ppm)

Location mark not shaded by value
Values shaded individually.

metres
0 50 100 150 200 250 300 350

MINEMAP MINE PLANNING SOFTWARE

RESOLUTE SAMANTHA LTD

CHINAMEN'S HILL

B-HORIZON SOIL, Au - As RESULTS

DRAWN :
SCALE 1 : 5000
DATE : 21 NOV 1995
CHECKED :

FIGURE 20

2500 E

3000 E

3500 E

4000 E

4500 E

5000 E

5500 E

6000 E

EL 44/94
(PART)

43 M/89

EL 44/94
(PART)

metres
0 50 100 150 200 250 300 350

MINEMAP MINE PLANNING SOFTWARE

RESOLUTE SAMANTHA LTD

MATHINNA GRID.

DEEPER (AUGERED) B-HORIZON SOIL SAMPLE NOS

DRAWN :

SCALE 1 : 5000

DATE : 23 NOV 1995

CHECKED :

FIGURE 21

96-3843

VOLUME 5 OF 5 ANNUAL REPORT
1995 EL 17/91 MATHINNA - RESOLUTE
SAMANTHA LTD - MACDONALD, G.

329640

5 cm

2500 E
3000 E
3500 E
4000 E
4500 E
5000 E
5500 E
6000 E
8000 N
7000 N
6000 N
EL 44/94 (PART)
43 N/89
EL 44/94 (PART)

96-3843

VOLUME 5 OF 5 ANNUAL REPORT
1995 EL 17/91 MATHINNA - RESOLUTE SAMANTHA LTD - MACDONALD, G.

329641

5 cm

COLOUR KEY

LEGEND
DRILLHOLE NOTATIONS
Au (ppb)
As (ppm)
Location mark not shaded by value
Values shaded individually

metres
0 50 100 150 200 250 300 350
MINEMAP MINE PLANNING SOFTWARE

RESOLUTE SAMANTHA LTD
MATHINNA GRID
DEEPER (AUGERED) B-HORIZON SOILS, Au + As RESULTS.

DRAWN :
SCALE 1 : 5000
DATE : 6 MAY 1995
CHECKED :
FIGURE 22

3000 E

3500 E

4000 E

4500 E

5000 E

5500 E

6000 E

5000N

CONTAMINATED

EL 44/94

7000N

43 N/89

EL 44/94

6000N

CONTAMINATION?

5000N

96-3843

VOLUME 5 OF 5 ANNUAL REPORT
1995 EL 17/91 MATHINNA - RESOLUTE SAMANTHA LTD - MACDONALD, G.

KEY

CONTOURS OF GOLD IN SOILS; 25, 50 & 100 ppb Au.

329642

5 cm

LEGEND

DRILLHOLE NOTATIONS

Au ppb (ppm)

Location mark not shaded by value
Values shaded individually.

metres
0 50 100 150 200 250 300 350

MINEMAP MINE PLANNING SOFTWARE

RESOLUTE SAMANTHA LTD

MATHINNA GRID

CONTOURED SHALLOW AND DEEPER B-HORIZON Au SOIL RESULTS

DRAWN :

SCALE 1 : 5000

FIGURE 23a

DATE : 21 NOV 1995

CHECKED :

2500 E

3000 E

3500 E

4000 E

4500 E

5000 E

10500 N

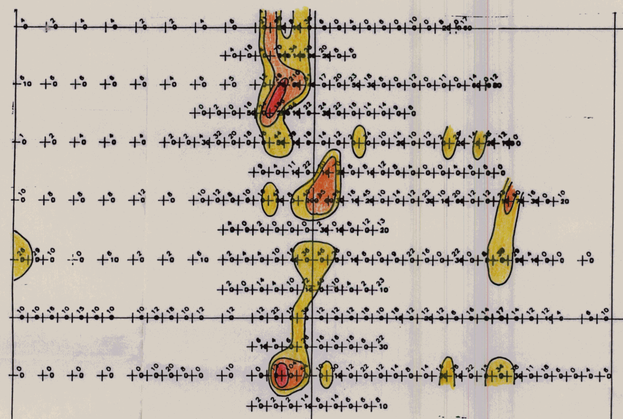
10000 N

9500 N

9000 N

E 72000mE

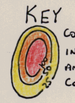
5408500mN



96-3843

VOLUME 5 OF 5 ANNUAL REPORT
1995 EL 17/91 MATHINNA - RESOLUTE
SAMANTHA LTD - MACDONALD, G.

KEY



CONTOURS OF GOLD IN SOIL; 25, 50 AND 100 ppb Au CONTOURS

329643

5 cm

LEGEND
DRILLHOLE NOTATIONS

Au (ppb)
As (ppm)

Location mark not shaded by value
Values shaded individually.

metres
0 50 100 150 200 250 300 350

MINEMAP MINE PLANNING SOFTWARE

RESOLUTE SAMANTHA LTD

CHINAMENS HILL
B-HORIZON GOLD SOIL CONTOURS

DRAWN :
SCALE 1 : 5000
DATE : 21 NOV 1996
CHECKED :

FIGURE 23.6

3500 E | 4000 E | 4500 E | 5000 E

8000 N

MT005 MT006 MT020 MT021

MT007

MT010 MT009 MT004 MT008

MT019 MT018

MT016 MT015 MT014 MT003

MT001 MT002

MT012

7500 N

MT013

7000 N

MT011

MT024

96-3843

VOLUME 5 OF 5 ANNUAL REPORT
1995 EL 17/91 MATHINNA - RESOLUTE
SAMANTHA LTD - MACDONALD. G.

329644

5 cm

LEGEND
DRILLHOLE NOTATIONS

NAME

metres
50 100 150 200 250 300 350

MINEMAP MINE PLANNING SOFTWARE

RESOLUTE SAMANTHA LTD

TASMANIA PROJECT – TOWNSHIP/CHURCH HILL
DRILLHOLE LOCATION PLAN

DRAWN : RS	SCALE 1 : 5000	FIGURE 24
DATE : 9 FEB 1996	CHECKED :	TOWNSHIP

3300 E.

3350 E.

3400 E.

3450 E.

3500 E.

350.00

300.00

250.00

200.00

MT026

COSTEAN

9m @ 1·35g/t Au inc.
3m @ 2·8 g/t Au

BASE OF WEATHERING

MT026

90.0m

96-3843

VOLUME 5 OF 5 ANNUAL REPORT
1995 EL 17/91 MATHINNA - RESOLUTE
SAMANTHA LTD - MACDONALD, G.

329645

5 cm

COLOUR KEY

Column, AUPLOT
Shaded by AUPLOT

<	0.30
–	0.50
–	1.00
–	5.00
–	1000.00

AS
Shaded by AS

<	20
–	50
–	100
–	500
–	10000

(ppb Au) 20 20 (ppm As)
↑ SOIL SAMPLE.

LEGEND

Qualities:
AUPLOT AS

Shaded by:
AUPLOT AS

Qualities shaded individually
D-hole column shaded by: AUPLOT

metres
5.0 10 15 20 25 30 35

MINEMAP MINE PLANNING SOFTWARE

RESOLUTE SAMANTHA LTD

TASMANIA – CHINAMEN,S HILL PROSPECT

DRILLHOLE SECTION 9900N

DRAWN : RS	SCALE 1 : 500	9900N FIGURE 25
DATE : 12 FEB 1996	CHECKED :	

4150 E.

4200 E.

4250 E.

4300 E.

4350 E.

300.00

250.00

200.00

150.00 m A.S.L.

MT005 120 100

MT006 808 210

MT020 45 100

MT021 68 90 58 70 20 30

BASE OF WEATHERING

67.0m.

60.0m.

54.0m.

66.0m.

MT005

MT006

MT020

MT021

96-3843

VOLUME 5 OF 5 ANNUAL REPORT
1995 EL 17/91 MATHINNA - RESOLUTE
SAMANTHA LTD - MACDONALD G

329646

5 cm

COLOUR KEY

Column, AUPLOT Shaded by AUPLOT

<	0.30
–	0.50
–	1.00
–	5.00
–	1000.00

AS Shaded by AS

<	20
–	50
–	100
–	500
–	10000

(Au) ppb 808 210 (As) ppm

SOIL SAMPLE

LEGEND

Qualities: AUPLOT AS

Shaded by: AUPLOT AS

Qualities shaded individually
D-hole column shaded by: AUPLOT

metres

5.0 10 15 20 25 35

MINEMAP MINE PLANNING SOFTWARE

RESOLUTE SAMANTHA LTD

TASMANIA – TOWNSHIP/CHURCH HILL PROSPECT

DRILLHOLE SECTION 8200N

DRAWN : RS	SCALE 1 : 500	8200N FIGURE 26
DATE : 12 FEB 1996	CHECKED :	

4150 E.

4200 E.

4250 E.

4300 E.

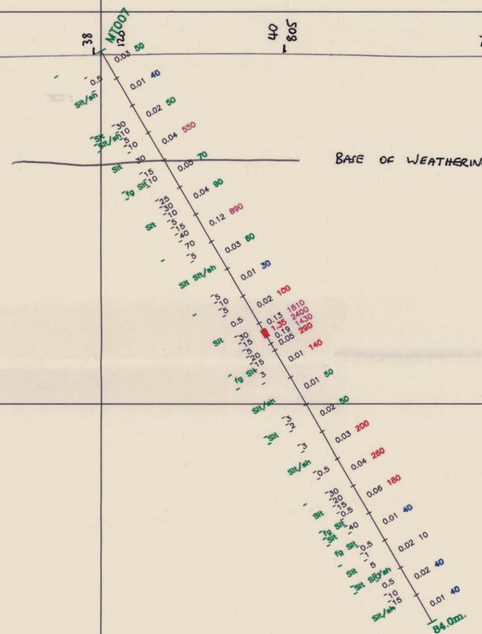
4350 E.

300.00

250.00

200.00

150.00



MT007

96-3843

VOLUME 5 OF 5 ANNUAL REPORT
1995 EL 17/91 MATHINNA - RESOLUTE
SAMANTHA LTD - MACDONALD G

329647

5 cm

COLOUR KEY

Column, AUPLOT Shaded by AUPLOT

<	0.30
–	0.50
–	1.00
–	5.00
–	1000.00

AS Shaded by AS

<	20
–	50
–	100
–	500
–	10000

Au (ppb) $\frac{\text{S.S}}{\text{soil sample site.}}$ As (ppm)

LEGEND

Qualities: AUPLOT AS

Shaded by: AUPLOT AS

Qualities shaded individually
D-hole column shaded by: AUPLOT

metres

5.0 10 15 20 25 30 35

MINEMAP MINE PLANNING SOFTWARE

RESOLUTE SAMANTHA LTD

TASMANIA – TOWNSHIP/CHURCH HILL PROSPECT

DRILL HOLE SECTION 8100N

DRAWN : RS	SCALE 1 : 500	8100N FIGURE 27
DATE : 27 FEB 1996	CHECKED :	

4150 E.

4200 E.

4250 E.

4300 E.

4350 E.

300.00

250.00

200.00

150.00

12
150

22
190

44
190

1015
320

2300 + 14
0 10

14
80

24
30

104
80

73
30

30
55

22
0

MT010

MT009

MT004

MT008

BASE OF WEATHERING

77.0m.

63.0m.

85.0m.

96-3843

VOLUME 5 OF 5 ANNUAL REPORT
1995 EL 17/91 MATHINNA - RESOLUTE
SAMANTHA LTD - MACDONALD G.

329648

5 cm

COLOUR KEY

Column, AUPLOT
Shaded by AUPLOT

<	0.30
–	0.50
–	1.00
–	5.00
–	1000.00

AS
Shaded by AS

<	20
–	50
–	100
–	500
–	10000

(ppb Au) 105 320 (ppm As)
↖ SOIL SAMPLE

LEGEND

Qualities:
AUPLOT AS

Shaded by:
AUPLOT AS

Qualities shaded individually
D-hole column shaded by: AUPLOT

metres
5.0 10 15 20 25 30 35

MINEMAP MINE PLANNING SOFTWARE

RESOLUTE SAMANTHA LTD

TASMANIA – TOWNSHIP/CHURCH HILL PROSPECT
DRILLHOLE SECTION 8000N

DRAWN : RS	SCALE 1 : 500	8000N FIGURE 28
DATE : 12 FEB 1996	CHECKED :	

4150 E.

4200 E.

4250 E.

4300 E.

4350 E.

300.00

250.00

200.00

150.00 m A.S.L.

24 60

70 100

89 100

78 110

22 40

18 30

18 80

28 80

24 0

17 0

S173 90

MT019

MT018

BASE OF WEATHERING

70.0m.

77.0m.

MT019

MT018

96-3843

VOLUME 5 OF 5 ANNUAL REPORT
1995 EL 17/91 MATHINNA - RESOLUTE SAMANTHA LTD - MACDONALD G

5 cm

COLOUR KEY

Column, AUPLOT Shaded by AUPLOT

<	0.30
–	0.50
–	1.00
–	5.00
–	1000.00

AS Shaded by AS

<	20
–	50
–	100
–	500
–	10000

Nb Au - N 8 - ppm Au

SOIL SAMPLE

LEGEND

Qualities: AUPLOT AS

Shaded by: AUPLOT AS

Qualities shaded individually
D-hole column shaded by: AUPLOT

metres

5.0 10 15 20 25 30 35

MINEMAP MINE PLANNING SOFTWARE

RESOLUTE SAMANTHA LTD

TASMANIA – TOWNSHIP/CHURCH HILL PROSPECT

DRILLHOLE SECTION 7900N

DRAWN : RS	SCALE 1 : 500	7900N FIGURE 29
DATE : 12 FEB 1996	CHECKED :	

4150 E.

4200 E.

4250 E.

4300 E.

4350 E.

300.00

250.00

200.00

150.00 m A.S.L.

MT016

MT015

MT014

MT003

BASE OF WEATHERING

79.0m.

97.0m.

85.0m.

5 cm

96-3843

VOLUME 5 OF 5 ANNUAL REPORT
1995 EL 17/91 MATHINNA - RESOLUTE
SAMANTHA LTD - MACDONALD G.

329650

COLOUR KEY

Column, AUPLOT Shaded by AUPLOT

- < 0.30
- – 0.50
- – 1.00
- – 5.00
- – 1000.00

AS Shaded by AS

- < 20
- – 50
- – 100
- – 500
- – 10000

(Au ppb) 42 120 (ppm Ag) — Soil Sample

LEGEND

Qualities: AUPLOT AS

Shaded by: AUPLOT AS

Qualities shaded individually
D-hole column shaded by: AUPLOT

metres
5.0 10 15 20 25 30 35

MINEMAP MINE PLANNING SOFTWARE

RESOLUTE SAMANTHA LTD

TASMANIA – TOWNSHIP/CHURCH HILL PROSPECT
DRILLHOLE SECTION 7800N

DRAWN : RS	SCALE 1 : 500	7800N FIGURE 30
DATE : 12 FEB 1996	CHECKED :	

4150 E.

4200 E.

4250 E.

4300 E.

4350 E.

300.00

250.00

200.00

150.00

MT001

MT002

BASE OF WEATHERING

79.0m.

84.0m.

28 80

60 20

78 110

81 70

24 110

26 0

22 10

16 0

27 100

14 40

7 0

8 0

96-3843

VOLUME 5 OF 5 ANNUAL REPORT
1995 EL 17/91 MATHINNA - RESOLUTE
SAMANTHA LTD - MACDONALD, G.

329651

5 cm

COLOUR KEY

Column, AUPLOT Shaded by AUPLOT

<	0.30
–	0.50
–	1.00
–	5.00
–	1000.00

AS Shaded by AS

<	20
–	50
–	100
–	500
–	10000

Au(ppb) 80 70 As (ppm)

↑ SOIL SAMPLE SITE

LEGEND

Qualities: AUPLOT AS

Shaded by: AUPLOT AS

Qualities shaded individually
D-hole column shaded by: AUPLOT

metres

5.0 10 15 20 25 30 35

MINEMAP MINE PLANNING SOFTWARE

RESOLUTE SAMANTHA LTD

TASMANIA – TOWNSHIP/CHURCH HILL PROSPECT

DRILL HOLE SECTION 7700N

DRAWN : RS	SCALE 1 : 500	7700N FIGURE 31
DATE : 27 FEB 1996	CHECKED :	

4150 E.
4200 E.
4250 E.
4300 E.
4350 E.

300.00
250.00
200.00
150.00 m A.S.L.

28 30
22 20
36 0
40 360
38 80
60 10
20 20
16 0
30 30
4 0
64 20
79 110

MT012

BASE OF WEATHERING

85.0m.

96-3843

VOLUME 5 OF 5 ANNUAL REPORT
1995 EL 17/91 MATHINNA - RESOLUTE
SAMANTHA LTD - MACDONALD. G.

329652 MT012

5 cm

COLOUR KEY

Column, Shaded by AUPLOT		Shaded by AS	
	< 0.30		< 20
	– 0.50		– 50
	– 1.00		– 100
	– 5.00		– 500
	– 1000.00		– 10000

(ppb Au_1) + $\frac{1}{2}$ (ppm As_2) / SOIL SAMPLE

LEGEND

Qualities: AUPLOT AS
Shaded by: AUPLOT AS

Qualities shaded individually
D-hole column shaded by: AUPLOT

metres
5.0 10 15 20 25 30 35

MINEMAP MINE PLANNING SOFTWARE

RESOLUTE SAMANTHA LTD

TASMANIA – TOWNSHIP/CHURCH HILL PROSPECT
DRILLHOLE SECTION 7600N

DRAWN : RS	SCALE 1 : 500	7600N FIGURE 32
DATE : 12 FEB 1996	CHECKED :	

4150 E.

4200 E.

4250 E.

4300 E.

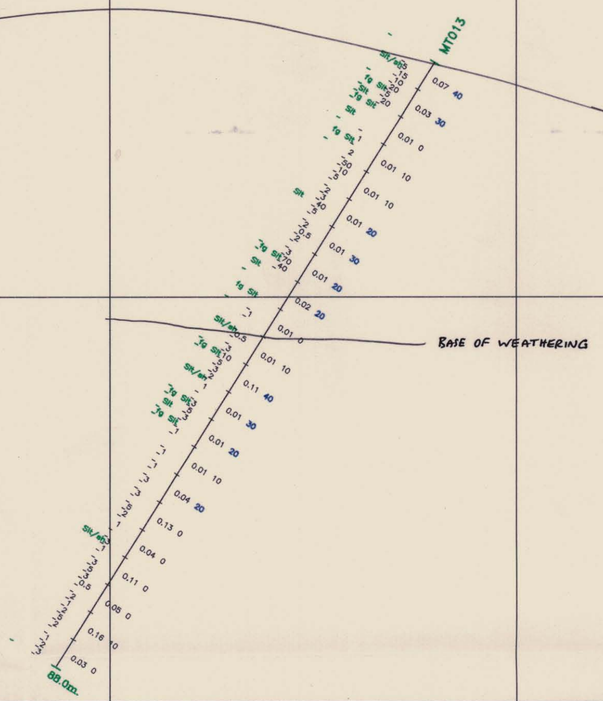
4350 E.

300.00

250.00

200.00

150.00



96-3843

VOLUME 5 OF 5 ANNUAL REPORT
1995 EL 17/91 MATHINNA - RESOLUTE
SAMANTHA LTD - MACDONALD. G.

329653

5 cm

COLOUR KEY

Column, AUPLOT Shaded by AUPLOT		AS Shaded by AS	
	< 0.30		< 20
	- 0.50		- 50
	- 1.00		- 100
	- 5.00		- 500
	- 1000.00		- 10000

LEGEND

Qualities: AUPLOT AS

Shaded by: AUPLOT AS

Qualities shaded individually
D-hole column shaded by: AUPLOT

metres

5.0 10 15 20 25 30 35

MINEMAP MINE PLANNING SOFTWARE

RESOLUTE SAMANTHA LTD

TASMANIA – TOWNSHIP/CHURCH HILL PROSPECT

DRILLHOLE SECTION 7335N

DRAWN : RS	SCALE 1 : 500	7335N FIGURE 33
DATE : 12 FEB 1996	CHECKED :	

4150 E.
4200 E.
4250 E.
4300 E.
4350 E.

300.00
250.00
200.00
150.00

BASE OF WEATHERING

MT011

84.0m.

COLOUR KEY

Column, AUPLOT Shaded by AUPLOT

<	0.30
–	0.50
–	1.00
–	5.00
–	1000.00

AS Shaded by AS

<	20
–	50
–	100
–	500
–	10000

(ppb Au) & (ppm As)

SOIL SAMPLE

LEGEND

Qualities: AUPLOT AS

Shaded by: AUPLOT AS

Qualities shaded individually
D-hole column shaded by: AUPLOT

metres
5.0 10 15 20 25 30 35

MINEMAP MINE PLANNING SOFTWARE

5 cm

RESOLUTE SAMANTHA LTD

TASMANIA – TOWNSHIP/CHURCH HILL PROSPECT

DRILLHOLE SECTION 7100N

DRAWN : RS	SCALE 1 : 500	7100N FIGURE 34
DATE : 12 FEB 1996	CHECKED :	

4150 E.

4200 E.

4250 E.

4300 E.

4350 E.

MT024

BASE OF WEATHERING

124.0m.

300.00

250.00

200.00

150.00

96-3843

VOLUME 5 OF 5 ANNUAL REPORT
1995 EL 17/91 MATHINNA - RESOLUTE
SAMANTHA LTD - MACDONALD, G.

329655

5 cm

COLOUR KEY

Column, AUPLOT Shaded by AUPLOT		AS Shaded by AS	
< 0.30		< 20	
– 0.50		– 50	
– 1.00		– 100	
– 5.00		– 500	
– 1000.00		– 10000	

Au(ppb) Ag Sb As(ppm)

↑ soil sample site

LEGEND

Qualities: AUPLOT AS

Shaded by: AUPLOT AS

Qualities shaded individually
D-hole column shaded by: AUPLOT

metres

5.0 10 15 20 25 30 35

MINEMAP MINE PLANNING SOFTWARE

RESOLUTE SAMANTHA LTD

TASMANIA – TOWNSHIP/CHURCH HILL PROSPECT

DRILLHOLE SECTION 6750N

DRAWN : RS	SCALE 1 : 500	6750N
DATE : 12 FEB 1996	CHECKED :	

FIGURE 35