

97-4054

284001

REPRODUCTION  
FIGURE No. 014389

45  
EL 2/92  
- 2 SEP 1997  
See folio 67

EXPLORATION LICENCE 2/92

"LISLE"

OPEN FILE

REPORT FOR 31 SUB-BLOCKS RELINQUISHED  
AUGUST 1997

**Distribution:**

Mineral Resources Tasmania 1  
MACMIN (Gold Coast) 1



MACMIN N.L.  
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97-4054

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## 1.0 SUMMARY

The historic Lisle goldfield produced around 250,000 ounces of gold up to 1909, mainly from alluvials.

Over the relinquished area which lies mainly along the edges of the Exploration Licence, only limited work has been carried out. The ends of some tracks which have been soil or auger sampled lie within the relinquished area and detailed geological mapping has been carried out over parts of the area.

## 2.0 INTRODUCTION

### 2.1 Location

E.L. 2/92 "Lisle" lies in the north-east of Tasmania, about 30 km from Launceston. (see Figure 1).

### 2.2 Tenure

E.L. 2/92 "Lisle" was issued to R.D. & R.J. McNeil on 24 July 1992. On 16/10/92 the title was transferred to MACMIN N.L.

E.L. 2/92 is bounded by A.M.G. lines 5443000m N and 5431000m N to the north and south respectively and A.M.G. lines 523000m E and 529000m E to the west and east respectively.

There are a number of exclusions, these being M.L.'s held by prospectors chasing alluvial gold.

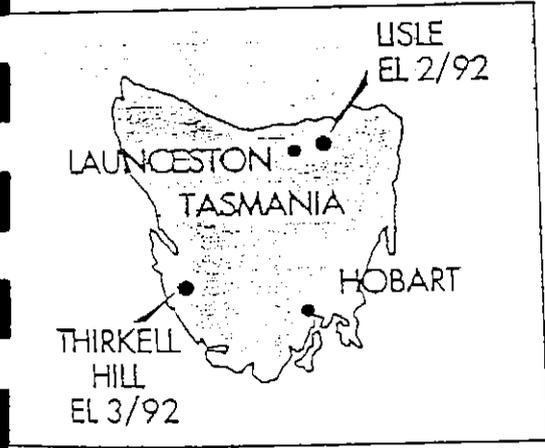
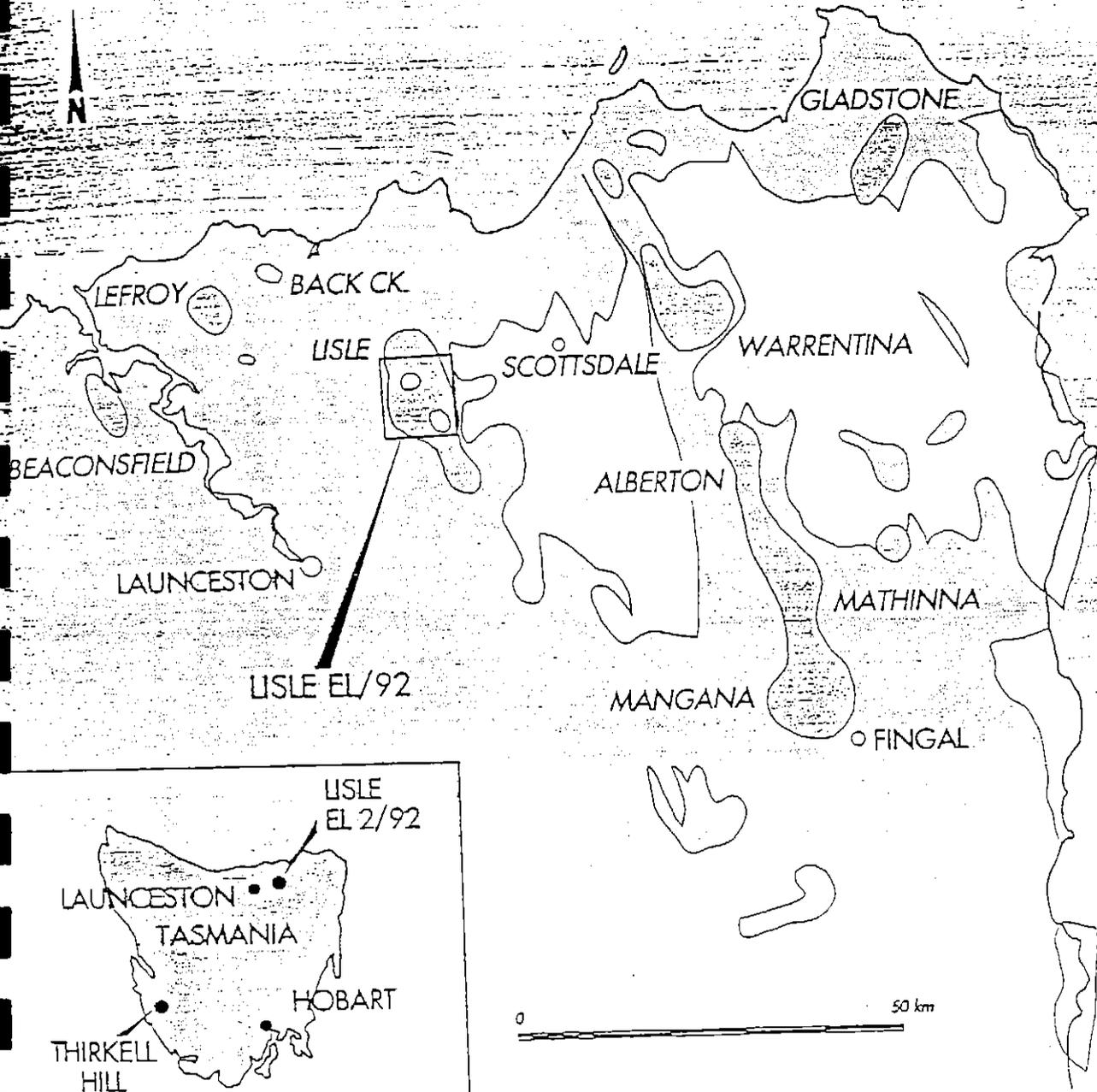
### 2.3 Land Usage and Access

The area is largely used for forestry with extensive pine plantations and areas of old and regrowth dry and wet sclerophyll forest. The northern third of the E.L. contains a number of farms and private land-holdings, however, in general these lie on relatively unprospective ground.

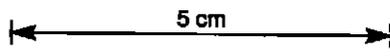
The E.L. is serviced by a bitumen road to the north and an unsealed road to the south. Within the E.L. numerous forestry roads provide good access to most of the prospective areas.

### 2.4 Topography

The maximum relief of the area is 400 m. The main Lisle goldfield occupies a basin-like depression with steep ridges ringing it on all sides except to the north



After: Bottrill et al, 1992



- Goldfields
- Granitoid outcrop

**GOLD PRODUCTION  
N.E. TASMANIA**

DANS RIVULET	0.1t
WARRENTINA	0.1t
GLADSTONE	0.2t
BACK CREEK	0.3t
MANGANA	0.5t
ALBERTON	0.8t
LEFROY	5.2t
MATHINNA	8.8t
LISLE	10.0t
BEACONSFIELD	27.8t

**MACMIN N.L.**

**GOLDFIELDS AND GRANITOIDS  
OF NE TASMANIA**

FIG 1

where the Lisle Creek passes through a gorge. The Lone Star and Panama goldfields occupy similar but smaller depressions.

The steep slopes are generally covered by talus deposits which obscure the bedrock geology.

## 2.5 Area Relinquished

Thirty one sub-blocks (31 km<sup>2</sup>), mainly around the perimeter of EL 2/92, were relinquished on 25/7/97. (Figure 2)

## 3.0 GEOLOGY (fig. 3)

### 3.1 Geological Summary

The oldest rocks are Ordovician to Early Devonian Mathinna Beds consisting of quartz-wacke to pelitic turbidites. These were multiply folded in the mid Devonian prior to being intruded by granitic to dioritic rocks of the Scottsdale batholith forming contact metamorphic aureoles.

Sediments in these metamorphic aureoles are spotty or hornfelsed with the black hornfelsed rocks probably representing metamorphosed black shales.

Unconformably overlying these rocks are Permian sediments, which have been largely removed by erosion and are now only seen in the south-west corner of the licence.

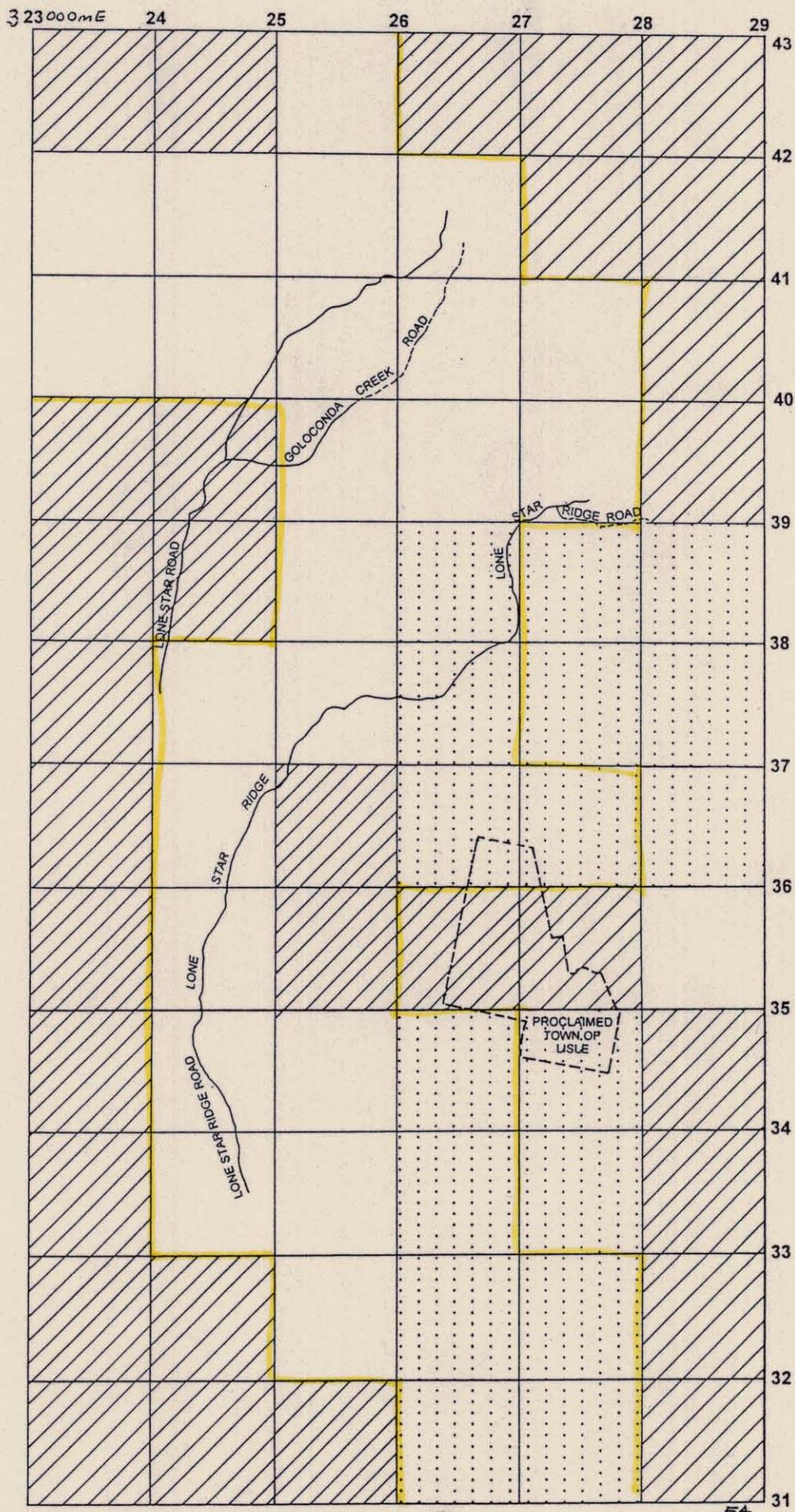
Tertiary basalts outcrop in the far north-east and south-east of the E.L. and occupy palaeo-topographic lows.

Primary gold mineralisation is generally considered to be syn-tectonic with perhaps some remobilisation associated with the granitic intrusions.

The source of the alluvials in the Lisle basin is the source of much conjecture and is not considered here.

### 3.2 Ore Deposit Model

The regional "model" which MACMIN considers most applicable to EL 2/92 is the Tasmania Reef (held by Beaconsfield Gold N.L.). This model consists of a quartz + carbonate + sulphide filled fracture that is transgressive to the host sediments and is fault controlled. The reef varies in width from less than 1 metre to approximately 5 metres and has a strike length of 350 to 400m. The mine operated from 1877 to 1914 and produced 840,000 ounces of gold from



 AREA RELINQUISHED 25/ 7/ 97 31 km<sup>2</sup>

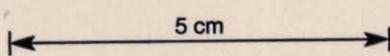
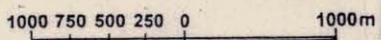
 AREA UNDERGOING EXPLORATION EVALUATION FROM WHICH 5 km<sup>2</sup> TO BE RELINQUISHED BY DECEMBER 31, 1997

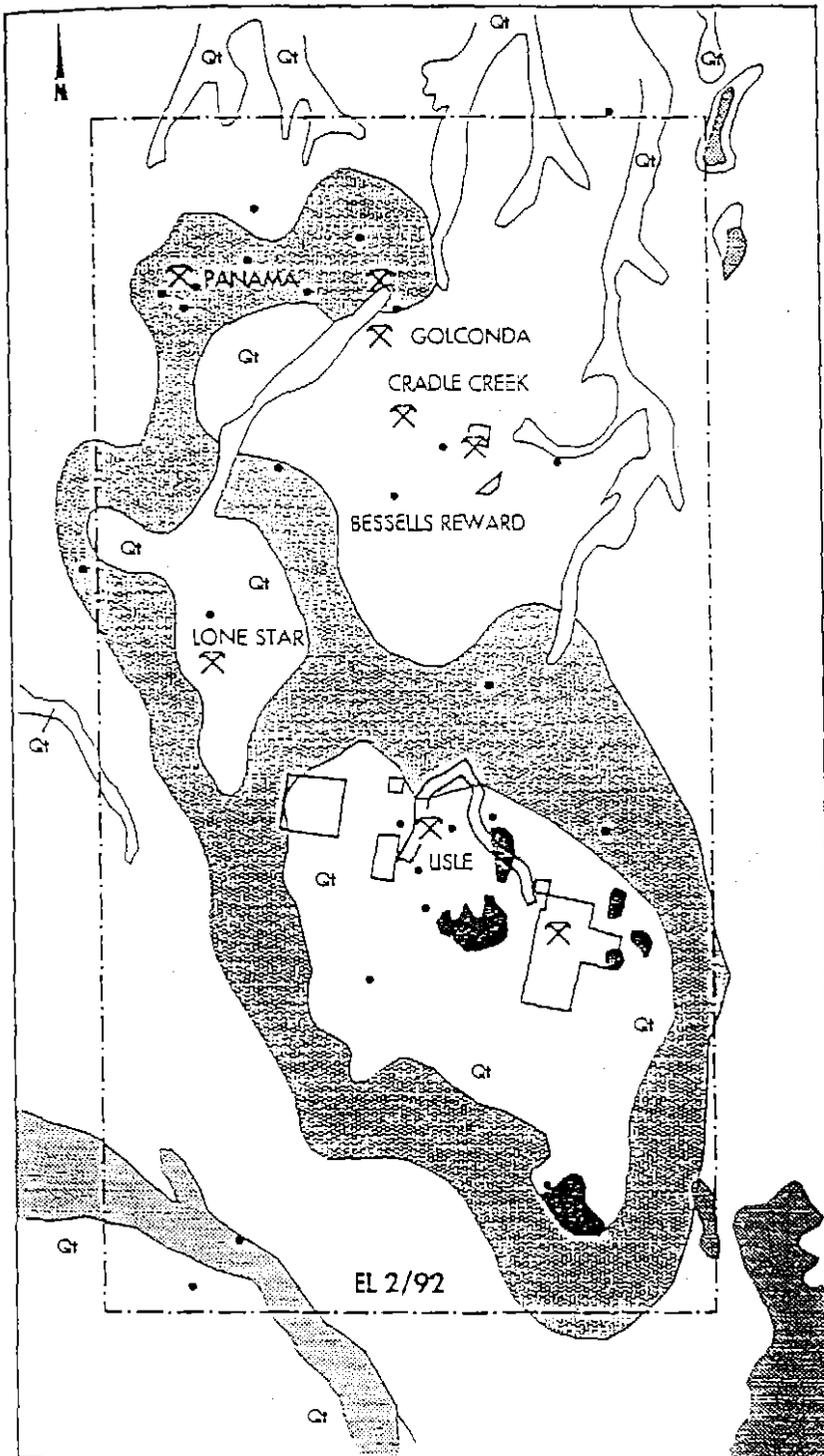
*Relinquished*



 MACMIN N.L.  
EL 2/92 LISLE

Fig. 2





- Qt Quaternary and Tertiary sediments
- Tertiary basalt
- Permian sediments
- Devonian granodiorite
- Mathinna beds-hornfelsed
- Mathinna beds-quartzite, slate, black shale
- Reported Au occurrence
- Mining Lease area excluded from EL 2/92
- Gold mining area, historical

MACMIN N.L.  
 USLE PROJECT  
 GENERAL GEOLOGY

FIG 3

1.38 million tonnes of ore (head grade of 24.6 g/t Au). Beaconsfield has published an indicated and inferred resource of 650,000 tonnes at 22.5 g/t Au (470,000 ounces) from the level of the historic workings down an additional 250m. In addition, mineralised drill intersections have been encountered a further 200m down giving a system with a minimum depth extent of 850m and a good probability of having a resource (historic total) with greater than 1.5 million ounces of gold.

There are broad geological similarities between the Beaconsfield and Lisle areas.

The principal target in the Lisle area is gold mineralised (high grade) veins with widths comparable to the Tasmania Reef. In addition, several other styles of gold mineralisation are possible and these include sheeted veins, quartz stockworks and bulk mineable disseminated gold deposits.

#### 4.0 PREVIOUS EXPLORATION

Charles Bessell initially discovered gold in the Lisle area in the 1870's. Past production was mainly from alluvials with minimal production from small high-grade veins.

Modern exploration has been pursued intermittently since 1976 by several companies; their reports are noted in the bibliography.

#### 5.0 EXPLORATION COMPLETED ON 31 RELINQUISHED SUB-BLOCKS SINCE GRANT OF EL 2/92

Soil and auger sampling along tracks has extended onto some of the relinquished sub-blocks. Detailed geological mapping along the tracks has also been completed on some of the sub-blocks relinquished (see plans 1-9).

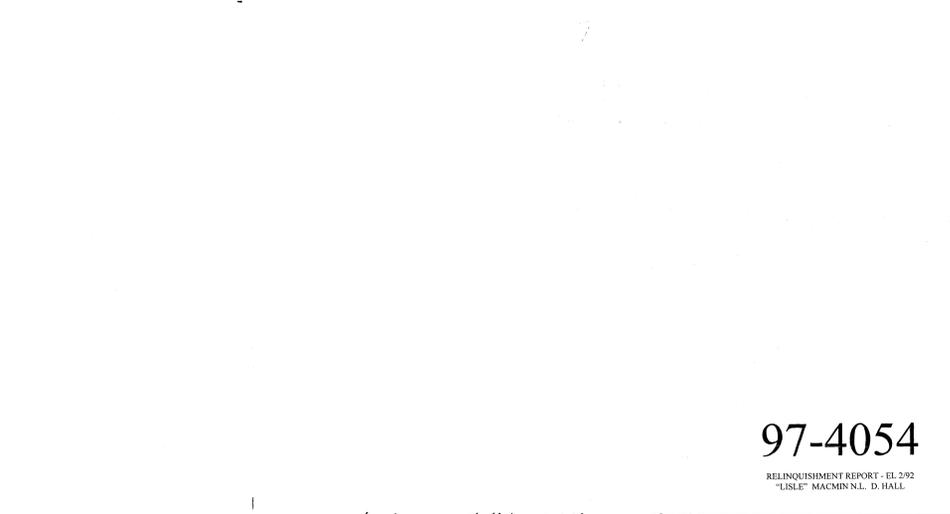
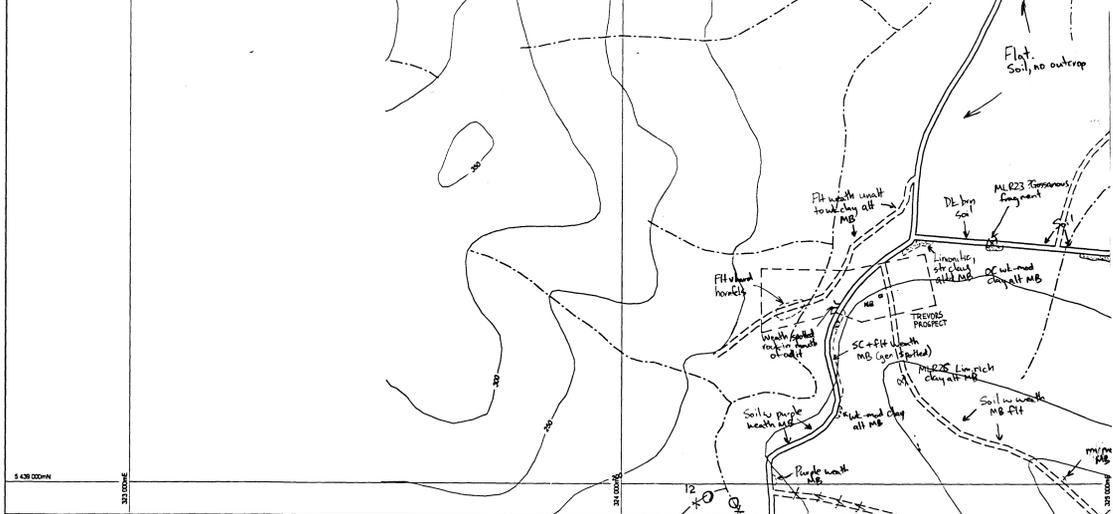
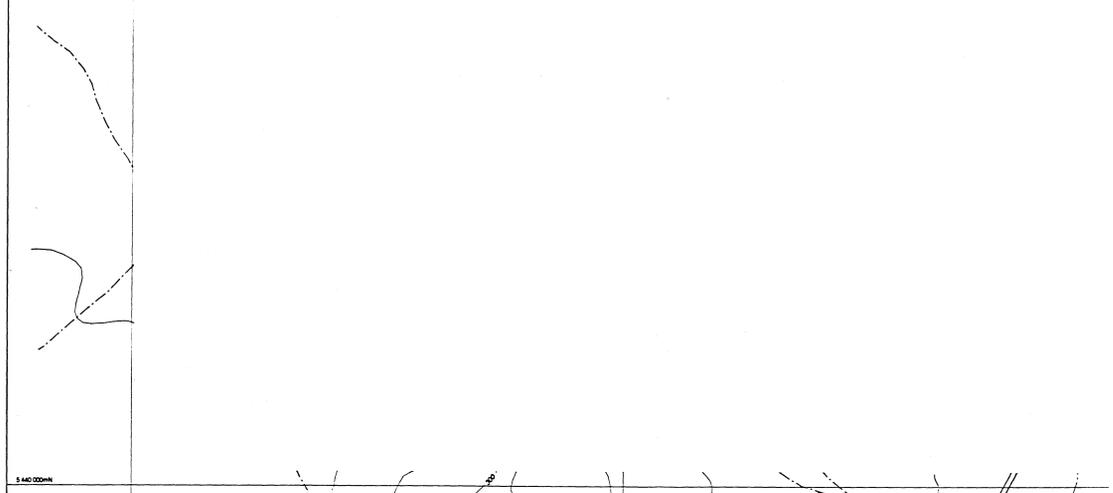
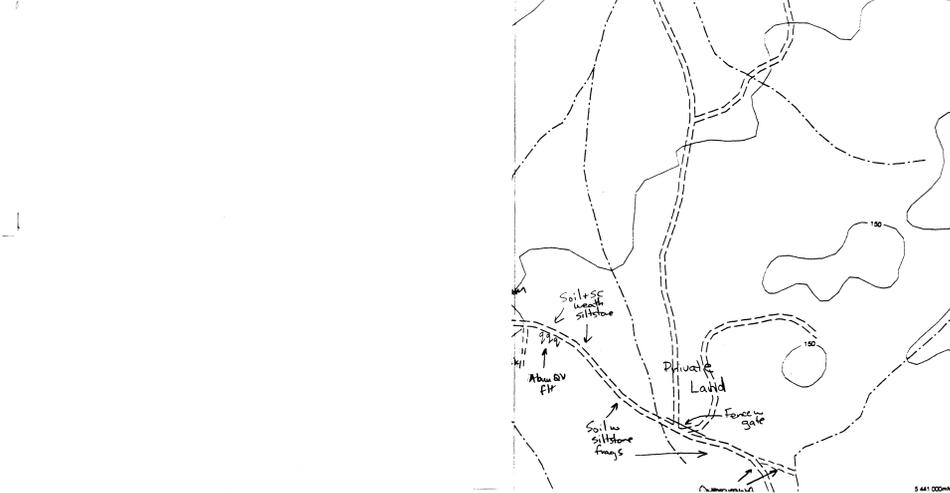
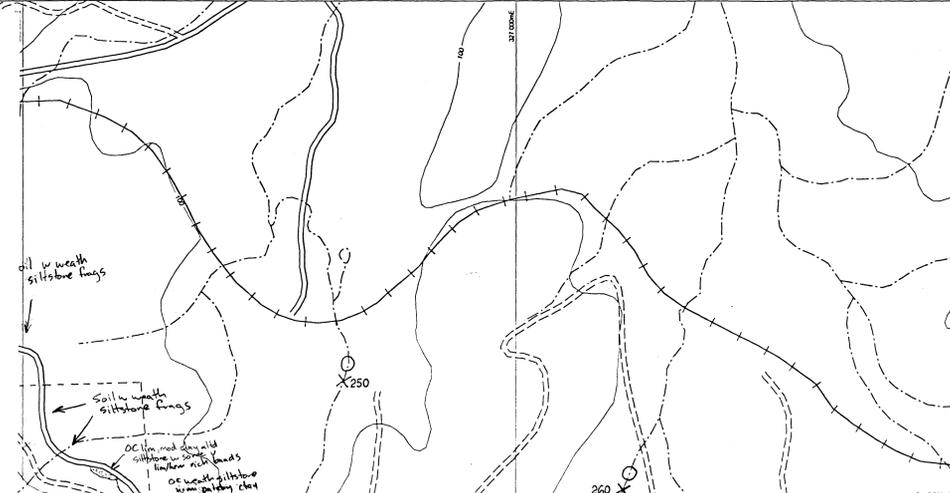
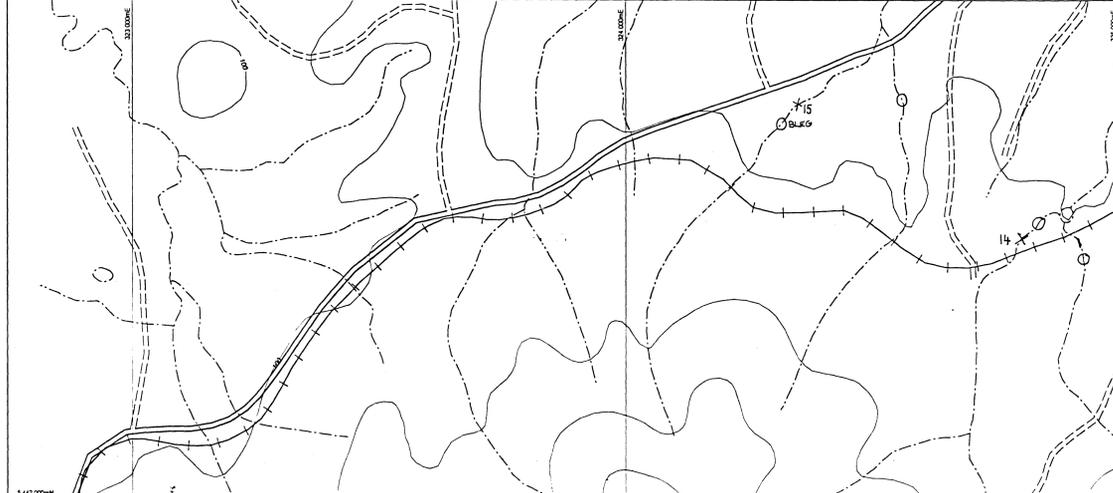
#### 6.0 MINERALISATION

No mineralisation or significant results were obtained from the sub-blocks relinquished.

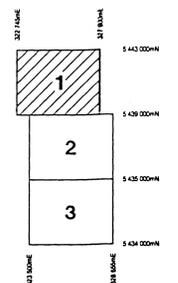
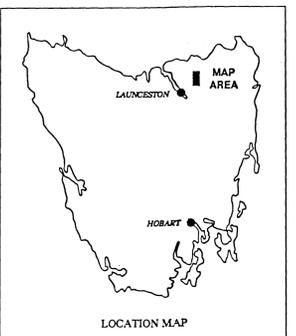
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AREA RETAINED  
25/7/97



**ROCK CHIP SAMPLING RESULTS**  
Marta Lucas, June 1997

Number	Loc	Lat	Long	Gr	Di
MLR20	10	2100	21	10	12
MLR21	3	18	15	11	20
MLR22	4	18	15	11	20
MLR23	3	300	3	26	16
MLR24	214	18	15	21	14
MLR25	7	240	27	26	31
MLR26	18	4	11	4	4
MLR27	11	33	14	25	4
MLR28	28	180	37	31	43
MLR29	11	182	37	33	83
MLR30	4	3	4	4	4
MLR31	11	12	14	12	12
MLR32	4	8	10	12	12
MLR33	18	34	17	47	10
MLR34	18	48	14	7	7
MLR35	8	45	14	11	11
MLR36	20	490	50	50	50
MLR37	7	4	4	4	4
MLR38	8	7	10	24	24
MLR39	2.4	4	7	7	7
MLR40	3	7	11	13	13
MLR41	8	360	37	230	38
MLR42	3	180	33	17	17
MLR43	3	100	18	4	4
MLR44	3	10	14	10	10
MLR45	3	22	25	88	38
MLR46	28	180	37	31	31
MLR47	4	37	13	8	4
MLR48	3	138	40	34	34
MLR49	8	65	25	5	5
MLR50	3	18	4	2	2
MLR51	3	78	40	40	40
MLR52	8	18	50	50	50
MLR53	4	10	14	13	13
MLR54	180	3600	10	12	12
MLR55	430	12	274	1000	2

NS MLR 2800000 to MLR 2810000  
Location Sheet

- LEGEND**
- ==== Main Road
  - ==== Minor Road (unsealed)
  - ==== Track (unsealed)
  - ==== Railway
  - ==== Creek
  - ==== Contour (C.L. = 30m)
  - 1.5x0.5x1.5 Trench (orientation as shown) with length & width & depth (m)
  - 15 Shaft with depth (m), if known
  - 30 Adit with length (m), if known
  - Quartz Reef
  - Altered Workings
  - CHERT ANOMALOUS BLEBS
  - CHERT SAMPLE SITE
  - CHERT ANOMALOUS AS
  - GRID OUTLINE
  - DRILLHOLE - DIRECTION (INFERRED SITE)
  - GN 20m GRANITIC ROCK @ 20m
  - MB MATHANNA BEDS
  - ON CONTACT
  - ML MINING LEASE BOUNDARY
  - MINE DIRECTION / DIP UNKNOWN
  - (x) MLR 19 Rock Chip Sample Location (1997) with sample number ML\*\*\*MLR\*\*
  - + 20001 Rock Chip Sample Location (1997) with sample number

**Rock Chip Assays (1997)**

SAMPLE NUMBER	As	Ag	Au	Cu	Zn
20001	1	15	28	12	4
20002	1	4	8	12	4
20003	21	18	14	4	18
20004	11	18	14	4	18

Compiled from 1 : 25 000 Topographic Sheet enlargements and from Aerial Photograph Interpretation



**MACMIN N.L.**  
LESLIE - GOLCONDA GOLDFIELDS  
NORTHWEST TASMANIA  
E.L. 292 - LESLIE  
**GEOLOGY FACT. MAP**  
SHEET 11

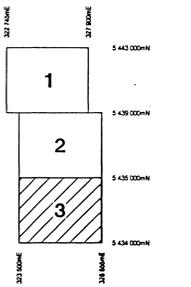
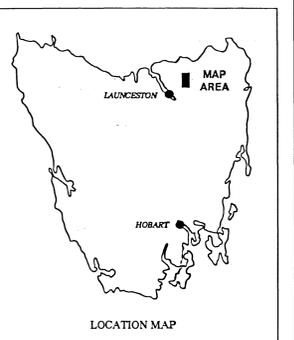
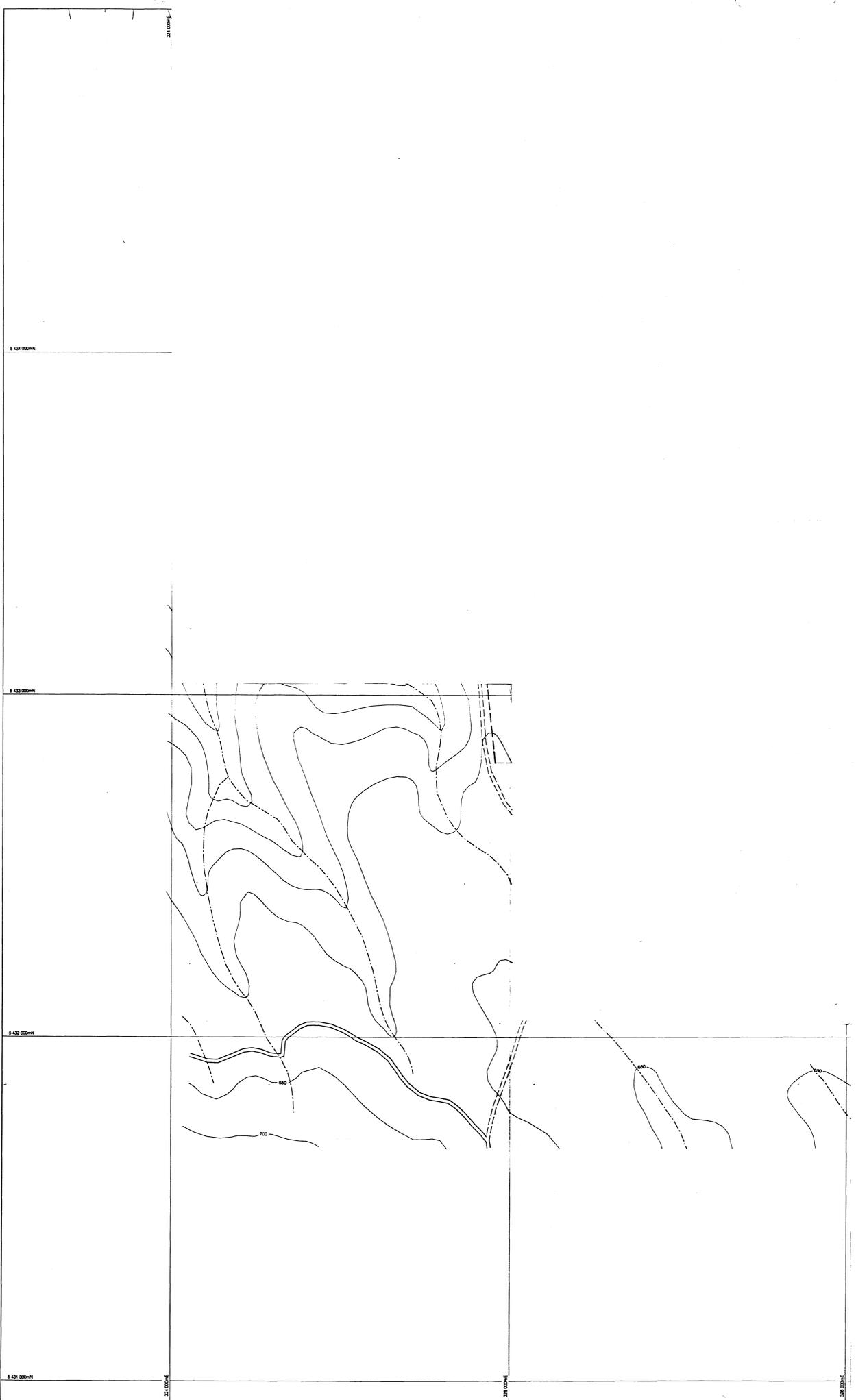
97-4054

RELINQUISHMENT REPORT - EL 292  
"LESLIE" MACMIN N.L. D. HALL

Compiled: MARTIN LUCAS Date: JUNE/JULY 1997 PLATE: 1  
Drawn: NORTHPOINT CARTOGRAPHICS Dwg. No.: LESLEH DGN

25/012  
PLAN 1





**SHEET INDEX**

**ROCK CHIP SAMPLING RESULTS**  
Martin Lucas, June 1997

Sample Number	MLR#	W	L	D	W	L	D	W	L	D	W	L	D
MLR#1	1	100	41	28	5								
MLR#2	2	14	26	28	5								
MLR#3	3	13	17	35	30								
MLR#4	4	13	17	35	30								
MLR#5	5	13	17	35	30								
MLR#6	6	13	17	35	30								
MLR#7	7	13	17	35	30								
MLR#8	8	13	17	35	30								
MLR#9	9	13	17	35	30								
MLR#10	10	13	17	35	30								
MLR#11	11	13	17	35	30								
MLR#12	12	13	17	35	30								
MLR#13	13	13	17	35	30								
MLR#14	14	13	17	35	30								
MLR#15	15	13	17	35	30								
MLR#16	16	13	17	35	30								
MLR#17	17	13	17	35	30								
MLR#18	18	13	17	35	30								
MLR#19	19	13	17	35	30								
MLR#20	20	13	17	35	30								

MLR#s posted at MLR# on Sample Location Sheets

**AREA RETAINED**  
25/7/97

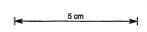
**LEGEND**

- ==== Main Road
- ==== Minor Road (hatched)
- ==== Track (hatched)
- Railway
- Creek
- Contour (C.L. + 5m)
- 1.5x0.5x1.5 Thresh formation as shown with length x width x depth (m)
- 15 Shaft with depth (m), if known
- 30 Adit with length (m), if known formation as shown
- Quartz Reef
- Alluvial Workings
- ML ML BOUNDARY
- CREEK ANOMALOUS GOLD SS (NOT SAMPLE SITE)
- CREEK ANOMALOUS ARSENIC SS (PPM) (NOT SAMPLE SITE)
- GOLD OUTLINE
- PATENTED BED
- CONTACT
- GRANITIC ROCK
- DIRECTION OF DIPPING
- WIND DIRECTION / DIP UNKNOWN
- (x) MLR#1 Rock Chip Sample Location (1997) with sample number (ML#-MLR#)

**97-4054**

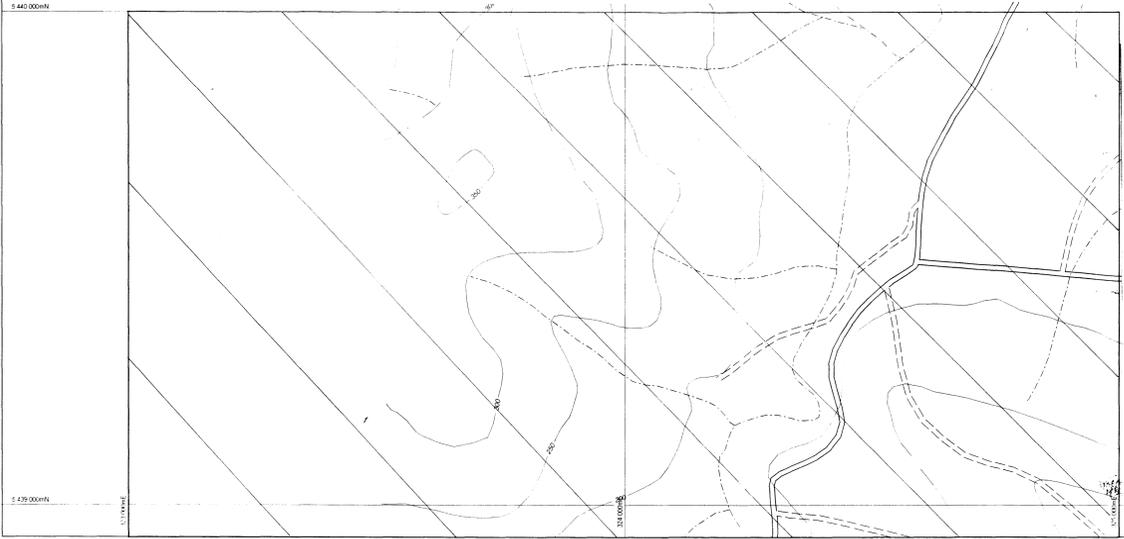
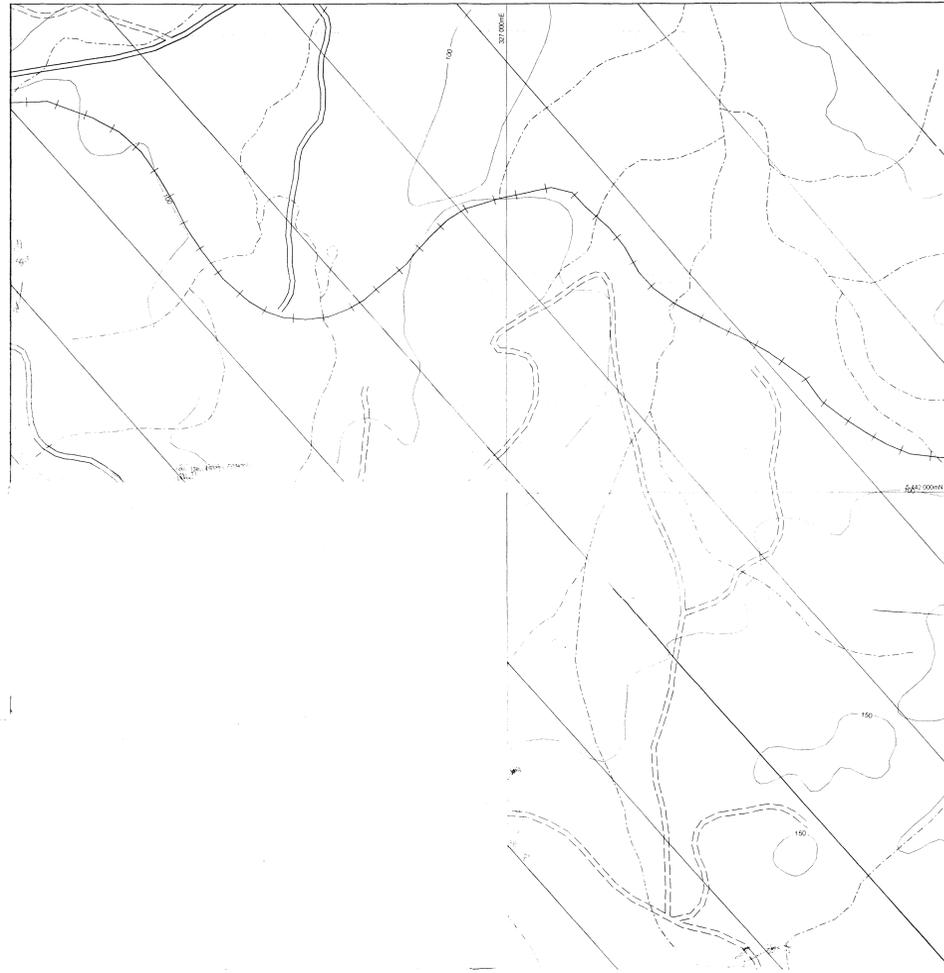
RELINQUISHMENT REPORT - EL 292  
"LISLE" MACMIN N.L. D. HALL

Compiled from 1 : 25 000 Topographic Sheet enlargements and from Aerial Photograph blowups

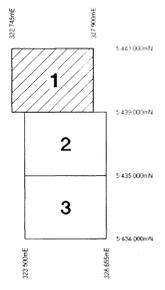
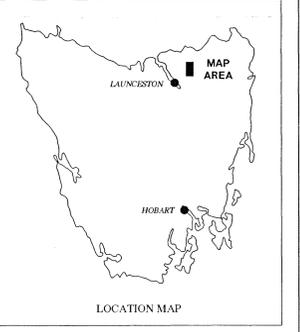


**MACMIN N.L.**  
LISLE - GOLCONDA GOLDFIELDS  
NORTHWEST TASMANIA  
P.O. BOX 100 - LISLE

**284014 GEOLOGY FACT. MAP**  
SHEET 3



**AREA RETAINED**  
25/7/97



- LEGEND**
- Main Road
  - Minor Road (unsealed)
  - Track (unsealed)
  - Railway
  - Creek
  - Contour (C.I. = 50m)
  - Trench (orientation as shown) with length x width x depth (m)
  - Shaft with depth (m), if known
  - Adit with length (m), if known (orientation as shown)
  - Quartz Reef
  - Alluvial Workings
  - Sample Traverse (20m interval)
  - Gold assay result (ppb)
  - Auger Sample Location (1997) with Assay (ppb)
  - Soil Sample Location (1997) with Assay (ppb)
  - AREA RELINQUISHED 25/7/97

**97-4054**

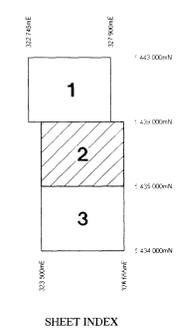
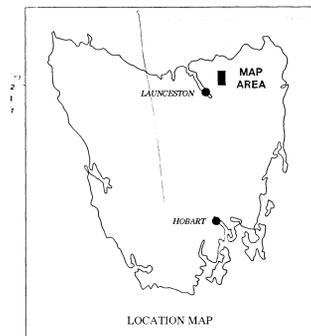
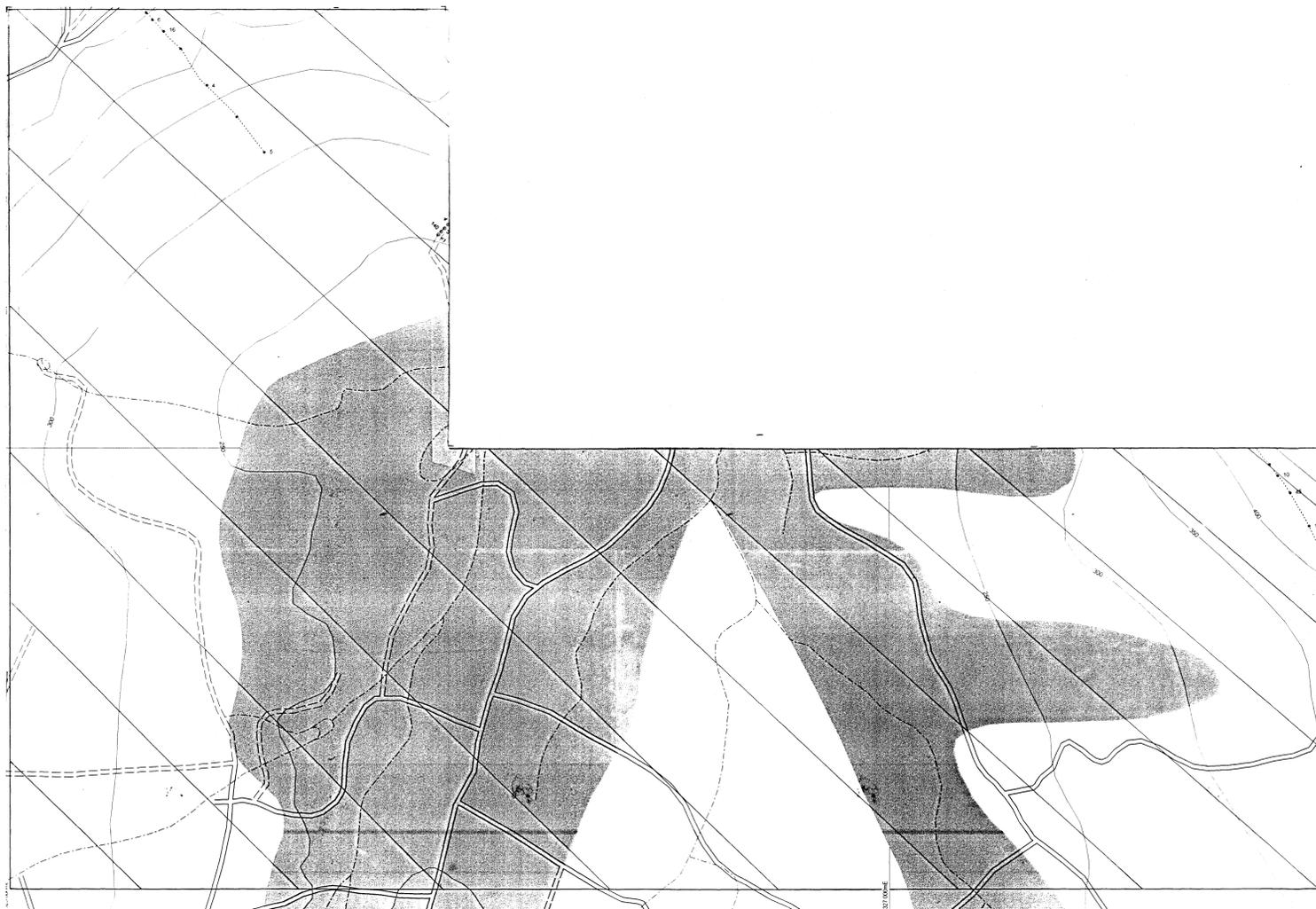
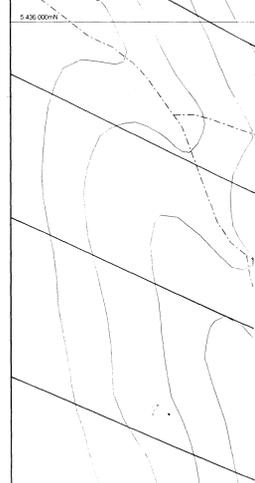
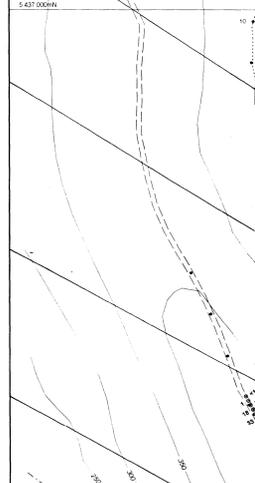
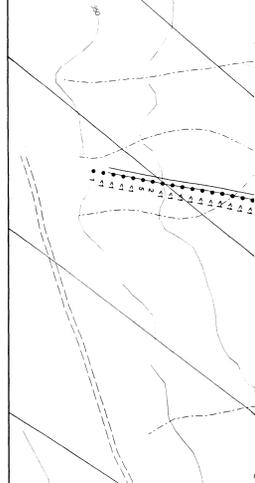
RELINQUISHMENT REPORT - EL 292  
"LISLE" MACKEN N.L. D. HALL  
Compiled from 1 : 25 000 Topographic Sheet enlargements  
and from Aerial Photograph blowups



**MACKEN N.L.**  
LISLE - GOLD ASSAYS  
Recon. Soil 1995, Soil (1997), Auger (1997)  
Sheet 1

SCALE 1 : 5 000  
0 100 200 300 400 500  
metres

Compiled: \_\_\_\_\_ Date: \_\_\_\_\_ PLATE: \_\_\_\_\_  
Drawn: NORTHPOINT CARTOGRAPHICS | Dwg. No.: LISLE01.DGN



- LEGEND**
- ==== Main Road
  - ==== Minor Road (enclosed)
  - ==== Track (enclosed)
  - ==== Railway
  - ~~~ Creek
  - Contour (C.I. = 50m)
  - 1.5x0.5x1.5 Trench (orientation as shown) with length x width x depth (m)
  - 15 Shaft with depth (m) (if known)
  - 30 Adit with length (m) (if known) (orientation as shown)
  - Quartz Reef
  - Abandoned Workings
  - ..... Sample Traverse (20m interval)
  - 64 Gold assay result (ppb)
  - 23 Auger Sample Location (1997) with Assay (ppb)
  - 34 Soil Sample Location (1997) with Assay (ppb)
  - AREA RELINQUISHED 25/ 7/ 97

**97-4054**

RELINQUISHMENT REPORT - EL 292  
"LISLE" MACMIN N.L. D. HALL

Compiled from 1 : 25 000 Topographic Sheet enlargements and from Aerial Photograph blowups



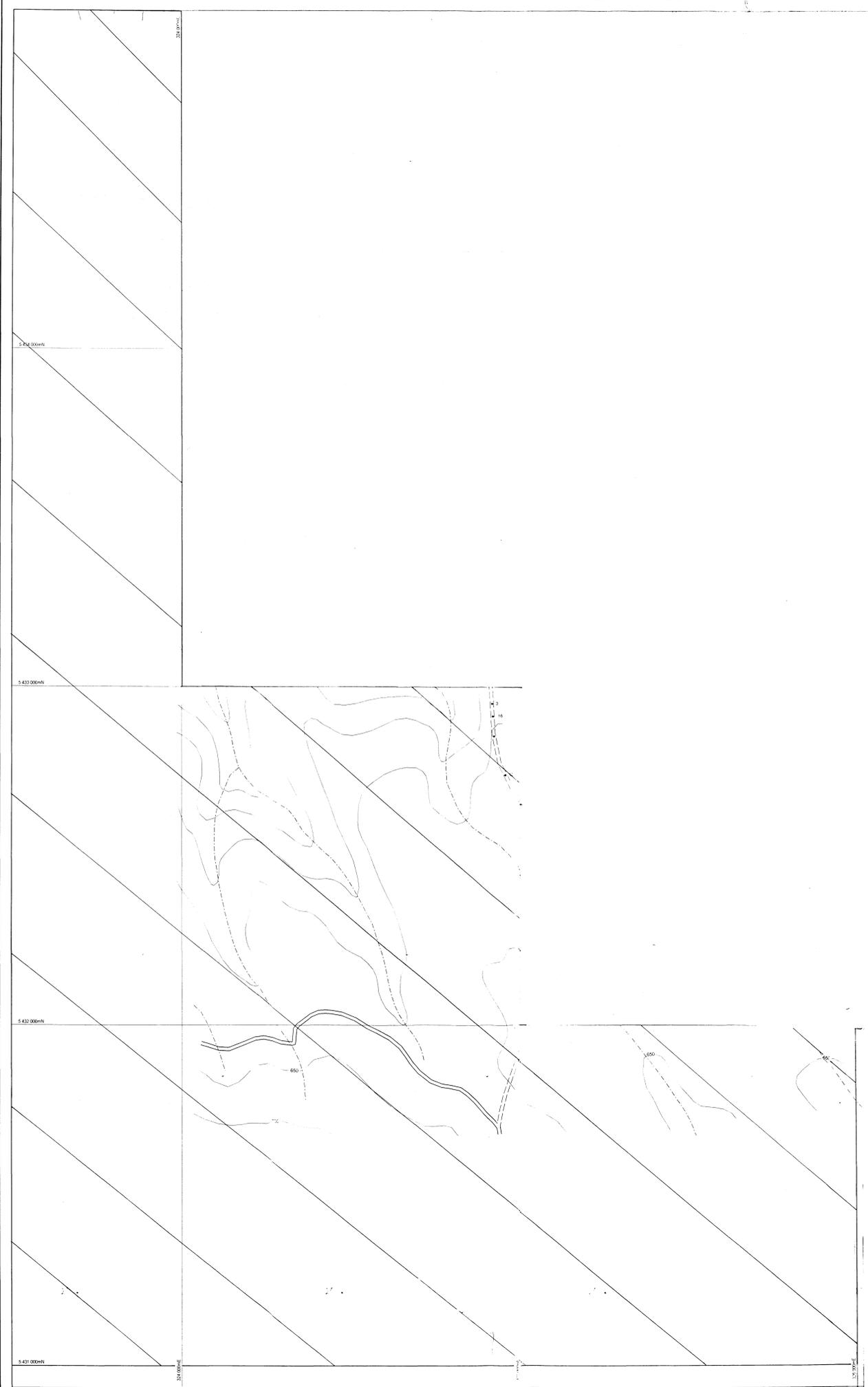
**MACMIN N.L.**  
LISLE - GOLOONDA GOLDFIELDS  
NORTHWEST TASMANIA  
D.L. 292 EL - LISLE

**GOLD ASSAYS**  
Recon. Soil 1995, Soil (1997), Auger (1997)

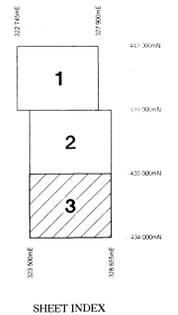
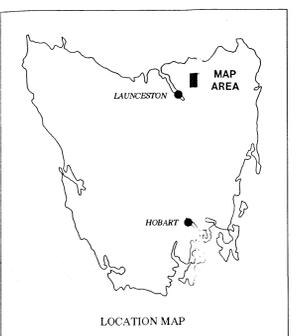
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metres

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Drawn: NORTHPOINT CARTOGRAPHICS Dwg. No. LISLE92.DGN



25/7/97  
AREA RETAINED



- LEGEND**
- Main Road
  - Minor Road (sealed)
  - Track (unsealed)
  - Railway
  - Creek
  - Contour (C.I. = 50m)
  - Trench (orientation as shown) with length x width x depth (m)
  - Shaft with depth (m) (if known)
  - Adit with length (m) (if known) orientation as shown
  - Quartz Reef
  - Alluvial Workings
  - Sample Traverse (down stream)
  - Gold assay result (ppb)
  - Auger Sample Location (1997) with Assay (ppb)
  - Soil Sample Location (1997) with Assay (ppb)
  - AREA RELINQUISHED 25/ 7/ 97

Compiled from 1 : 25 000 Topographic Sheet enlargements and from Aerial Photograph coverage



25/017

**MACMIN N.L.**  
LISLE - GOONAH GOLD FIELDS  
NORTHWEST TASMANIA  
LISLE

**GOLD ASSAYS**  
Recon. Soil 1995, Soil (1997), Auger (1997)

Sheet 3

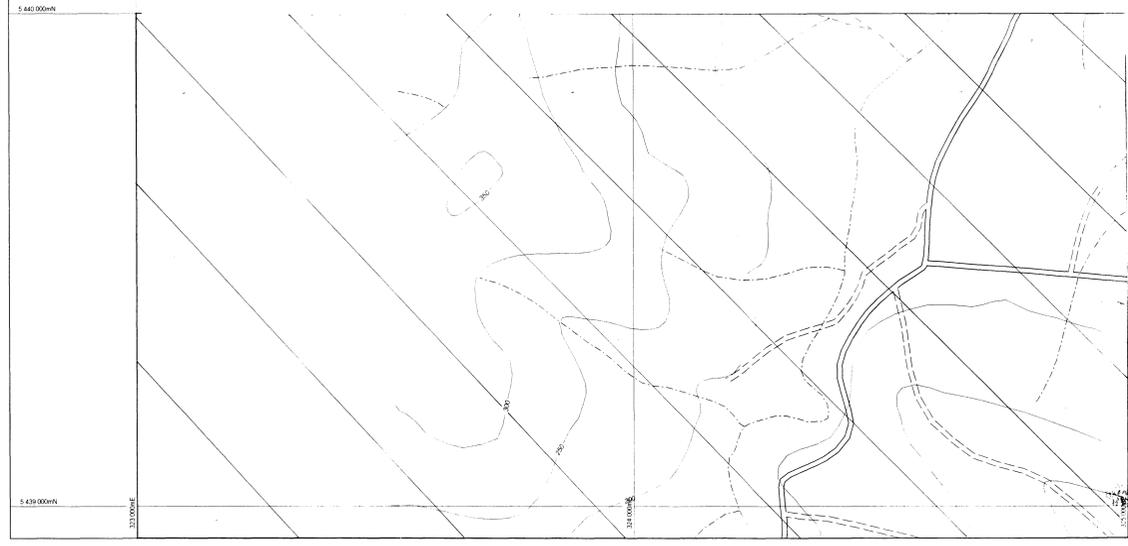
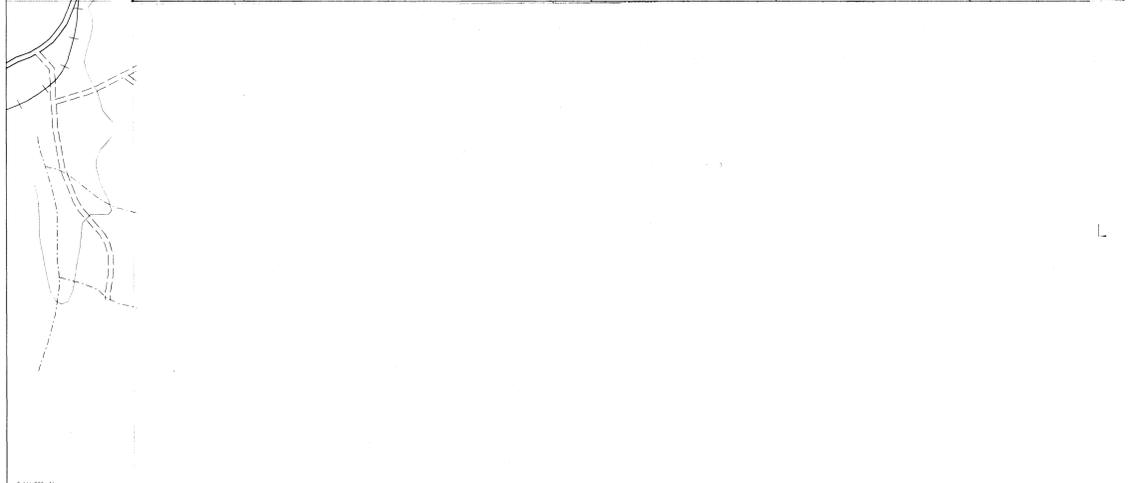
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metres

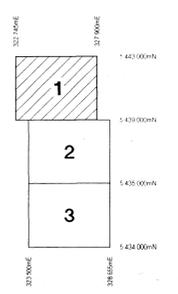
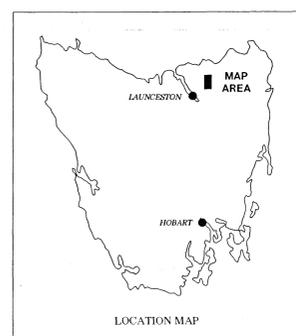
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**97-4054**

RELINQUISHMENT REPORT - EL 292  
"LISLE" MACMIN N.L. D. HALL



**AREA RETAINED**  
25/7/97



SHEET INDEX

AREA RELINQUISHED 25/ 7/ 97

LEGEND

- Main Road
- Minor Road (sealed)
- Track (unsealed)
- Railway
- Creek
- Contour (C.L. = 50m)
- Trench (1.5x0.5x1.5)  
Trench (orientation as shown) with length x width x depth (m)
- Shaft with depth (m). (if known (orientation as shown))
- Adit with length (m). (if known (orientation as shown))
- Quartz Reef
- Alluvial Workings
- Sample Traverse (20m interval)
- Arsenic assay result (ppb)
- Auger Sample Location (1997) with assay (ppm)
- Soil Sample Location (1997) with assay (ppm)
- Rock Chip Sample Location (1997) with sample number (ML\*\*MLR\*\*\*)
- Rock Chip Sample Location (1997) with sample number

Compiled from 1 : 25 000 Topographic Sheet enlargements and from Aerial Photograph blowups



**MACMIN N.L.**  
LISLE - GOLDENHILL GOLDMINE  
NORTHWEST TASMANIA  
TASMANIA  
**ARSENIC ASSAYS**  
Recon. Soil 1995, Soil (1997), Auger (1997)  
Sheet 1

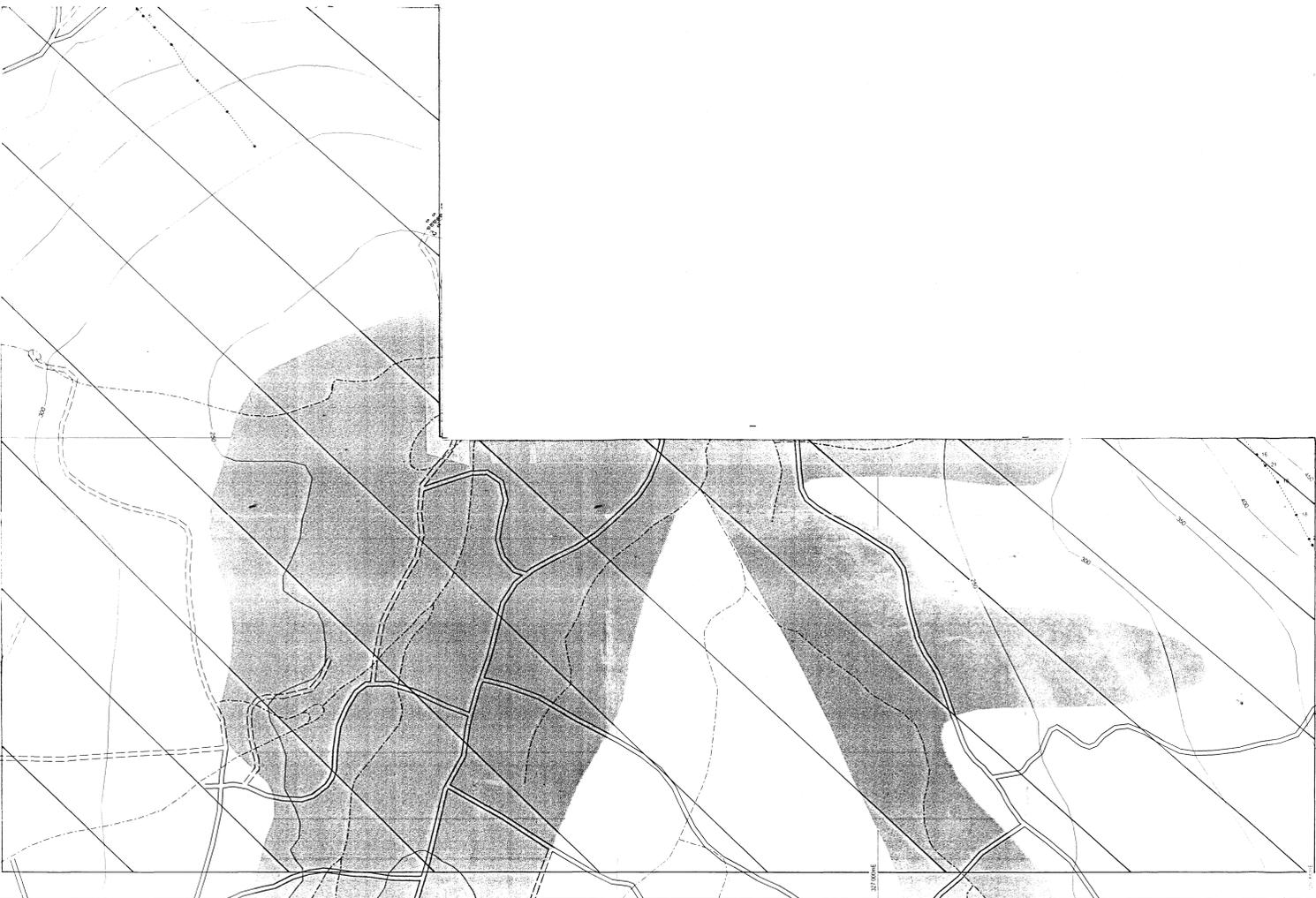
284015

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meters

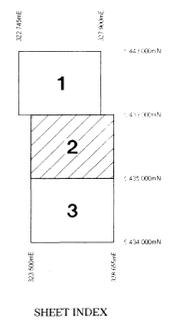
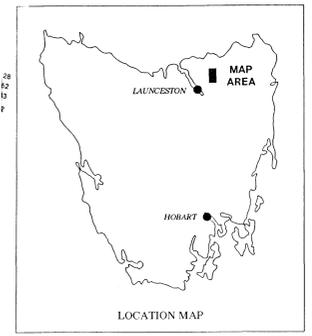
Compiled: P. Moh, G. MacD Date: JULY 1995 PLATE  
Drawn: NORTHPOINT CARTOGRAPHICS Dwg No.: LISLE01.DGN

**97-4054**

RELINQUISHMENT REPORT - EL 292  
"LISLE" MACMIN N.L. D. HALL



**AREA RETAINED**  
25/7/97



- LEGEND**
- Main Road
  - Minor Road (unsealed)
  - Track (unsealed)
  - Railway
  - Creek
  - Contour (C.I. = 50m)
  - Trench (formation as shown) with length x width x depth (m)
  - Skull with depth (m) (if known)
  - Aid with length (m) (if known formation as shown)
  - Quartz Reef
  - Alluvial Workings
  - Single Traverser (20m interval)
  - Arenic assay result (ppb)
  - Auger Sample Location (1997) with Assay (ppm)
  - Soil Sample Location (1997) with Assay (ppm)
  - AREA RELINQUISHED 25/7/97

Compiled from 1 : 25,000 Topographic Sheet enlargements and from Aerial Photograph blowups



**MACMIN N.L.L.**  
 125 LE - GOLDENVALE GOLDMINE  
 NORTHWEST TASMANIA  
 T.S. 2/72 - L.S. 1/2

**ARSENIC ASSAYS**  
 Recon. Soil 1996, Soil (1997), Auger (1997)  
 Sheet 2

SCALE 1 : 5 000

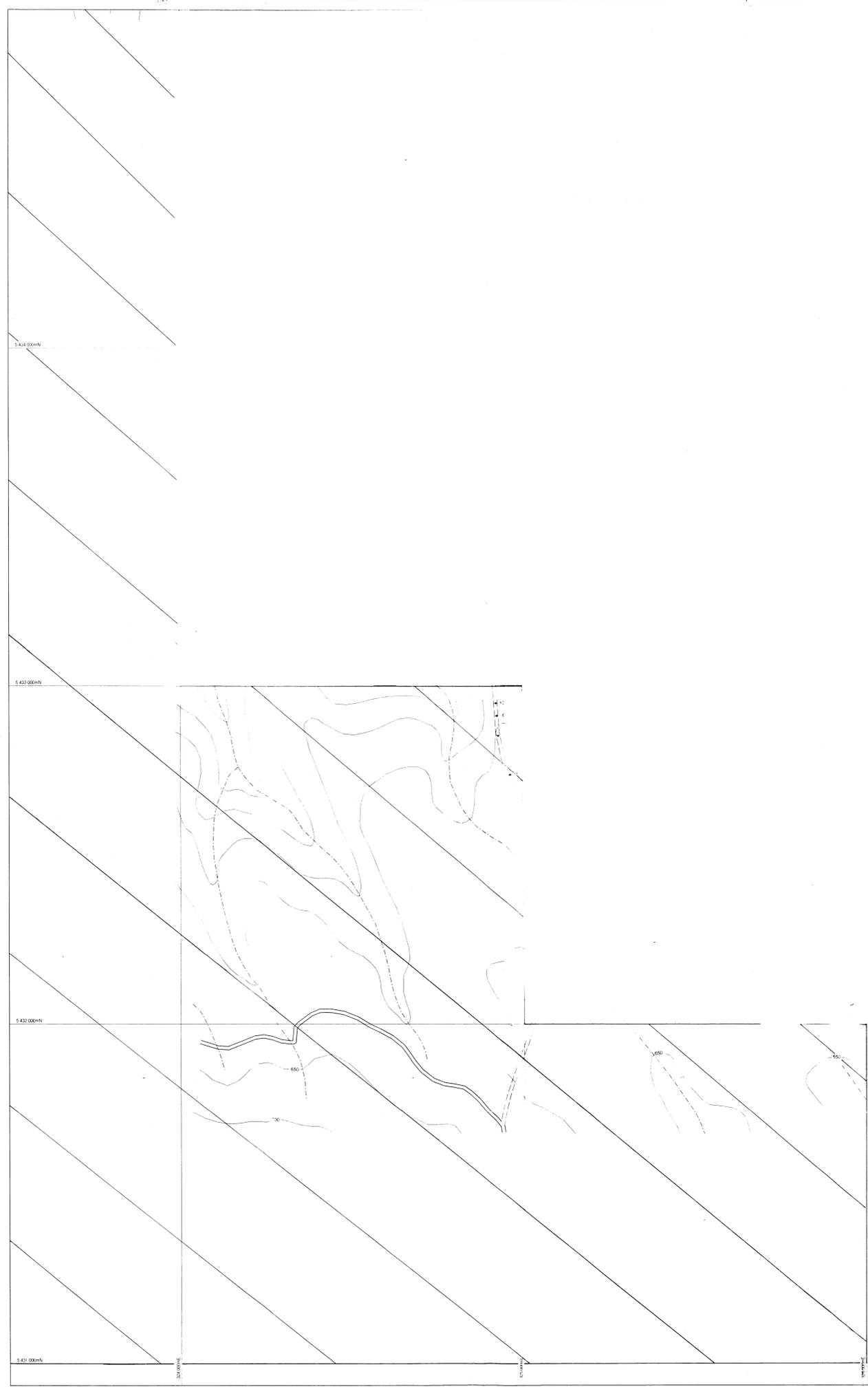
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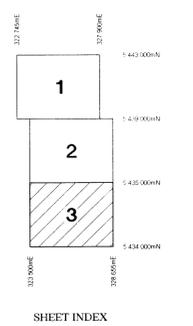
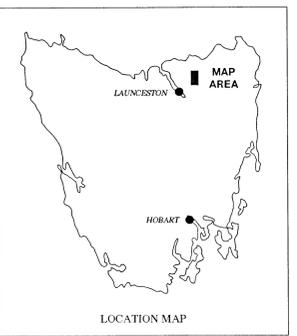
**97-4054**

RELINQUISHMENT REPORT - EL 292  
 "LISLE" MACMIN N.L. HALL

284019



**AREA RETAINED**  
25/7/97

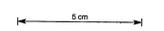


- LEGEND**
- Main Road
  - Minor Road (sealed)
  - Track (unsealed)
  - Railway
  - Creek
  - Contour (C.I. = 50m)
  - Trench (orientation as shown) with length x width x depth (m)
  - Shaft with depth (m) (if known)
  - Adit with length (m) (if known) (orientation as shown)
  - Quarry Reef
  - Alluvial Workings
  - Sample Traverse (20m interval)
  - Arsenic assay result (ppb)
  - Auger Sample Location (1997) with Assay (ppm)
  - Soil Sample Location (1997) with Assay (ppm)
  - AREA RELINQUISHED 25/ 7/ 97

**97-4054**

RELINQUISHMENT REPORT - RL 292  
"LISLE" MACMIN N.L. D. HALL

Compiled from 1 : 25 000 Topographic Sheet enlargements and from Aerial Photograph blowups



**MACMIN N.L.**  
SHELF - GOLDENHIDE GOLDMINE  
NORTHWEST TASMANIA  
R.L. 2/92 - LISLE

**ARSENIC ASSAYS**  
Recon. Soil 1995, Soil (1997), Auger (1997)  
Sheet 3

SCALE 1 : 5 000

0 100 200 300 400 500  
metres

Compiled P. McN. G. MacD. Drawn JULY 1995 PLATE  
Drawn NORTHPOINT CARTOGRAPHICS Draw No. LISLE03.DGN