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**ANNUAL REPORT  
FOR  
C121/1993 – “LAKE VIOLET PROJECT”**

**E53/241, 242, 260, 302, 326, 343, 359, 360, 366, 373, 461A, 646,  
M53/442, 443,  
P53/828 ✓**

**FOR THE PERIOD 1 JANUARY 1998 TO 31 DECEMBER 1998**

**EAGLE MINING CORPORATION N.L.**

**A.C.N. 009 207 087**

**BY: J. P. HOWLAND**

**DUE DATE: 31 MARCH 1999**

**PRIVATE AND CONFIDENTIAL**

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Department of Minerals &  
Great Central Mines Limited  
Eagle Mining Corp. N

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**BOX 10596**



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## TENEMENT REPORT INDEX

**OPERATOR:** Great Central Mines Limited

**PROJECT:** Lake Violet

**TENEMENTS:** E53/241, 242, 260, 302, 326, 343, 359, 360, 366, 373, 461A, 646, M53/442, 443, P53/828

**REPORT NUMBER:** C121/1993

**REPORTING PERIOD:** 1 January 1998 to 31 December 1999

**AUTHOR:** J. P. Howland

**STATE:** WA

**LATITUDE:** -26° 32' to -26° 55'

**LONGITUDE:** 120° 39' to 121° 03'

**AMG mN:** 7 021 120 to 7 063 730

**mE:** 266 660 to 306 525

**1:250,000 SHEET:** Wiluna SG51-9

**1:100,000 SHEET:** Lake Violet 3044  
Sandalwood 3144

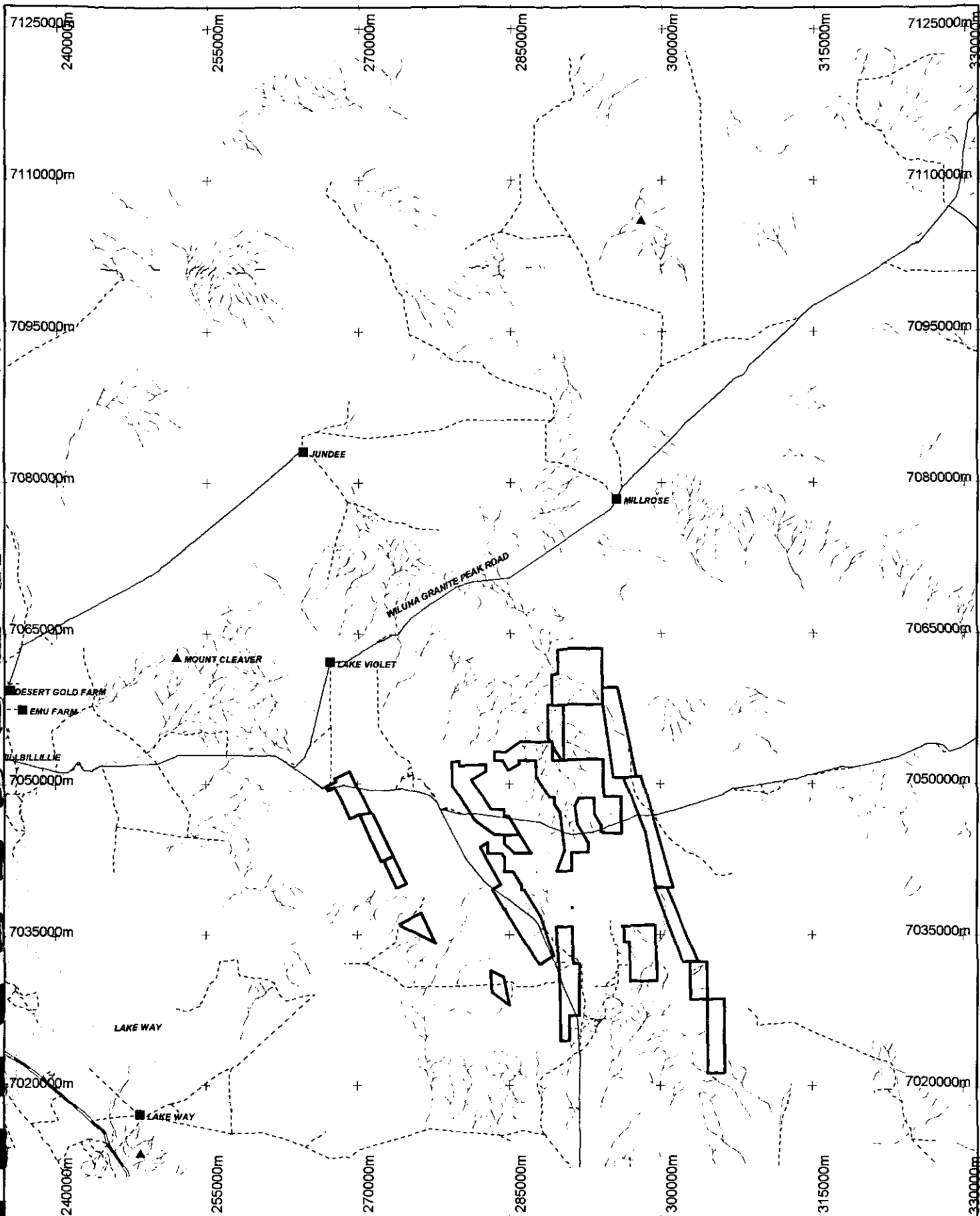
**1:50,000 SHEET:** Mahood 3044-I  
New England 3044-II  
Porcupine Well 3044-III  
Lake Violet 3044-IV  
Sandalwood 3144-III  
Gunally 3144-IV

**MINERAL FIELD:** East Murchison

**MINERAL DISTRICT:** Wiluna

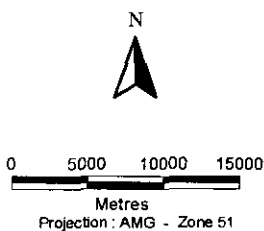
**COMMODITY:** Gold

**KEYWORDS:** Gold, aeromagnetic, geological interpretation, geological mapping, prospect review, database, gridding, AC, RAB drilling



# LEGEND

- Tenement Boundary
- Homestead
- Mountain-peak-hill
- Populated place
- Principal Road
- Secondary Road
- Minor Road
- Track
- Lakes
- Drainage



Compiled: J.Howland  
 Drawn: M.Schafer  
 Loc: Melbourne  
 Scale: 1: 500,000  
 Date: 11/8/99  
 Revised: 11/8/99  
 APR: Lake Violet  
 Plot No.: //  
 Figure: 1

**Eagle Mining Corporation N.L.**  
 A.C.N. 009 207 087

## **Lake Violet Tenement Location Plan**

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(GBRB 107, 123-165, 194-195, 201-212, 231-234, 240-248, 250-253, 255-267, 272-288,  
OUTB 1-19, TWFB 1-4, 6-18)

# 1. SUMMARY OF EXPLORATION ACTIVITIES

**Figure 2**

Exploration over the Wiluna Project during the year has included a data compilation, geological mapping and interpretation and a review of prospects. Reconnaissance AC and RAB drilling was carried out in the north and central areas of the project.

## AC Drilling

TENEMENT	NO OF HOLES	METRES	NO OF SAMPLES
E53/359	51	3446	868
E53/373	8	460	88
E53/461A	12	807	203

The only significant gold result ( $>0.2\text{g/t Au}$ ) was 4m @  $0.66\text{g/t Au}$  from a depth of 24m, in drill hole GBRA 2 on E53/359.

No significant results ( $>0.1\%$ ) were returned for copper, lead or zinc.

## RAB Drilling

TENEMENT	NO OF HOLES	METRES	NO OF SAMPLES
E53/242	7	291	73
E53/359	105	2302	596
E53/373	10	407	104
E53/461A	19	1226	309

The best gold result was 8m @  $0.34\text{g/t Au}$  from a depth of 36m, including 4m @  $0.44\text{g/t Au}$ , in drill hole TWFB 4 on tenement E53/373.

No significant results were returned for tenements E53/242 or E53/461A. No base metal assays were done.

## 2. TENEMENT STATUS

All tenements in the Lake Violet project are held 100% by Great Central Mines Limited. Eagle Mining Corporation NL became a wholly subsidiary of Great Central Mines on 3 December 1997. The project consists of 15 tenements covering an area of 311.15km<sup>2</sup>.

Tenement ID	Date Granted	Area (km <sup>2</sup> )
E 53/241	18/07/1990	10.76
E 53/242	18/07/1990	25.27
E 53/260	22/11/1990	16.56
E 53/302	25/11/1991	3.42
E 53/326	19/01/1992	7.30
E 53/343	18/03/1992	28.00
E 53/359	15/09/1992	95.20
E 53/360	9/08/1992	16.80
E 53/366	15/09/1992	5.60
E 53/373	13/10/1992	25.20
E 53/461A	23/02/1994	44.80
E 53/646	1/07/1996	16.80
M 53/442	9/10/1995	9.02
M 53/443	9/10/1995	6.41
P 53/828	7/07/1993	0.01

## 3. LOCATION AND ACCESS

**Figure 1**

The Lake Violet Project is located approximately 55km east of Wiluna. Access is via the Gunbarrel Highway, which runs through the project area. Access within the tenements is via unsealed roads and station tracks.

## 4. GEOLOGY

The Lake Violet project is located in the northwestern part of the Norseman-Wiluna Greenstone Belt, on the Wiluna 1:250,000 scale map sheet.

The Norseman-Wiluna Greenstone Belt consists of ultramafic rocks overlain by mafics, felsics and clastic sediments. The mafic/ultramafic rocks range from dunite and peridotite through to norite and gabbro, with ultramafic komatiites and tholeiitic and high-Mg basalt dominating the lower stratigraphic levels.

Felsic volcanics and associated sedimentary rocks are more dominant within the upper stratigraphic sequences of the belt. These consist of dacitic, rhyolitic and minor andesitic units interbedded with shales, cherts and BIFs. Abundant quartz feldspar and feldspar porphyry felsic intrusives are found in the Wiluna area.

The Norseman-Wiluna Greenstone Belt has been folded, faulted and metamorphosed. There are extensive granitic intrusions.

Locally, the geology consists of basal ultramafic/gabbroic rocks, basalt and minor felsic volcanics and metasediments. Coarse grained granite intrudes in the north of the project area, and leucogranite/microgranite is present in the southeast.

The project lies in an inferred synformal to synclinorial structure.

Quartz and gypsum dunes associated with playa lakes dominate the central portion of the project. Laterite is present but rare. Colluvium and hardpan cover of the rest of the project.

## **5. EXPLORATION**

### **5.1 DATA COMPILATION**

All drilling and exploration data were transferred to an Access database. Surface geochemical data were validated.

### **5.2 GEOLOGICAL MAPPING AND INTERPRETATION**

Regional geological mapping and interpretation of the Yandal and Wiluna Greenstone Belts has been carried out. Interpretation at 1:100,000 and 1:25,000 scales has included mapping, re-logging old drill holes and detailed study of airborne geophysical data. AGSO regolith data were compiled to produce a complete regolith plan for the area.

### **5.3 PROSPECT REVIEW**

Prospects in the Lake Violet Project were reviewed and ranked according to surface geochemistry, drilling and the interpretation of geology, aeromagnetic data, Landsat images and regolith at 1:100,000 scale. The drilling was assessed on the basis of geochemical criteria including gram x metre, maximum gold value and events.

### **5.4 GRIDDING**

A total of 31.99 line kilometres of gridding was carried out on the project to provide access for drill rigs.



## 5.5 AC DRILLING

**Figure 3**  
**Appendix I**

Reconnaissance AC drilling was carried out in the central portion of the project over a 160m x 1280m spaced east-west grid. Drilling on E53/461A was oriented northeast-southwest and at 160m spacing.

TENEMENT	HOLE NO.S	NO OF HOLES	METRES	NO OF SAMPLES	ASSAYS	ORIENTATION
E53/359	GBRA 1-6, 10-12, 14-40, 59-66, 81-87	51	3446	868	Au, As, Cu, Pb, Zn, Ag	Dip -90° Azimuth 000°
E53/373	TWFA 10-17	8	460	88	Au, As	
E53/461A	OUTA 1-12	12	807	203	Au, As	

### 5.5.1 Results

The only significant gold result (>0.2g/t Au) was 4m @ 0.66g/t Au from a depth of 24m, in drill hole GBRA 2 on E53/359.

Hole No	Northing	Easting	Interval (m)	Width (m)	Grade (g/t Au)	Lithology
GBRA 2	7042240	290880	24-28	4	0.66	Undifferentiated saprolite

No significant results (>0.1%) were returned for copper, lead or zinc.

### 5.5.2 Sample and Assay Procedure

METHOD OF SAMPLING	Dry : Quarter & Cone
	Wet : Grab sampled
SAMPLE COLLECTION METHOD	4 metres
ASSAY PREPARATION	Oven dried, Pulverised to nominal -75 microns, 400 - 500 gram split
ASSAY SAMPLE WEIGHT	40 grams
DIGEST	Aqua Regia acid digest (Au) Total Acid Digest (Ni suite multielement)
ELEMENTS ASSAYED	Au, As, Ag, Cu, Pb, Zn
DETECTION LIMIT	0.01 ppm Au, 10 ppm As, 0.1 ppm Ag, 1 ppm Cu, Pb, Zn
LABORATORY	Analabs (Eastern Goldfields, Perth)

## 5.6 RAB DRILLING

**Figure 4**  
**Appendix II**

Reconnaissance RAB drilling was carried out over 11 lines of a 160m x 1280m spaced east-west grid. Three northeast-southwest oriented lines of drilling were carried out at 160m spacing on tenement E53/461A.

TENEMENT	HOLE NO.S	NO OF HOLES	METRES	NO OF SAMPLES	ASSAYS	ORIENTATION
E53/242	TWFB 1-4, 6-8	7	291	73	Au, As	Dip -90° Azimuth 000°
E53/359	GBRB 107, 123-165, 194-195, 201-212, 231-234, 240-248, 250-253, 255-267, 272-288	105	2302	596		
E53/373	TWFB 9-18	10	407	104		
E53/461A	OUTB 1-19	19	1226	309		

### 5.6.1 Results

The best result was 8m @ 0.34g/t Au from a depth of 36m, including 4m @ 0.44g/t Au, in drill hole TWFB 4 on tenement E53/373. Significant results (>0.2g/t Au) are listed below.

Hole No	Northing	Easting	Interval (m)	Width (m)	Grade (g/t Au)	Lithology
TWFB 4	7056500	289900	36-44	8	0.34	No lithology
		Incl.	40-44	4	0.44	
TWFB 4	7056500	289900	52-56	4	0.32	No lithology

No significant results were returned for tenements E53/242 or E53/461A.

### 5.6.2 Sample and Assay Procedure

METHOD OF SAMPLING	Dry : Quarter & Cone
	Wet : Grab sampled
SAMPLE COLLECTION METHOD	4 metres
ASSAY PREPARATION	Oven dried, Pulverised to nominal -75 microns, 400 - 500 gram split
ASSAY SAMPLE WEIGHT	40 grams
DIGEST	Aqua Regia acid digest (Au)
ELEMENTS ASSAYED	Au, As
DETECTION LIMIT	0.01 ppm Au, 10 ppm As
LABORATORY	Analabs (Eastern Goldfields, Perth)

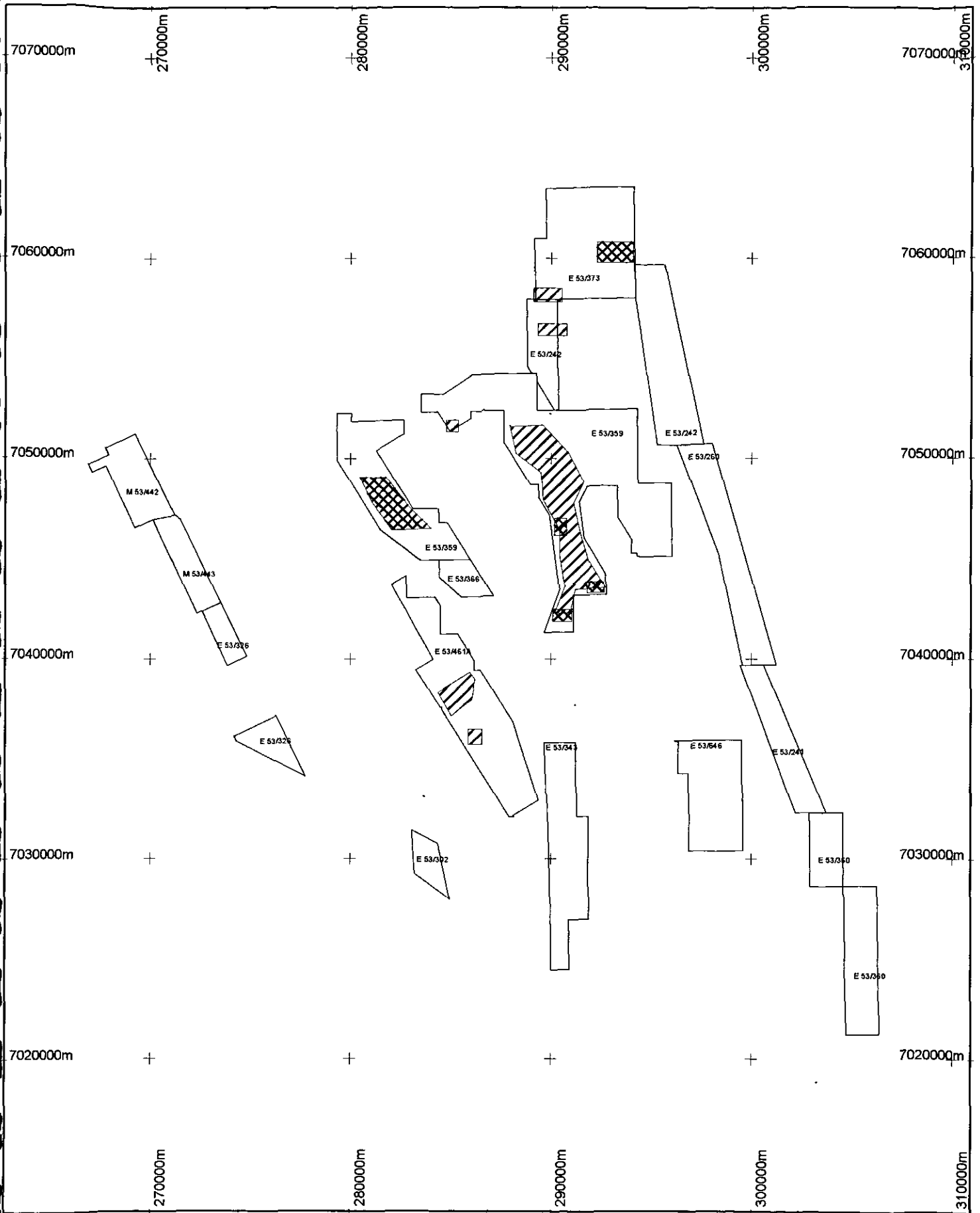
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THORNE, L. H., 1998

Annual Report for the Lake Violet Project (E53/241, 242, 260, 302, 326, 343, 359, 360, 366, 373, 461A, 646, M53/422, 433, P53/828) for the period 01/01/1997 to 31/12/1997. Eagle Mining Corporation NL.



<b>LEGEND</b> Tenement Boundary AC Drilling RAB Drilling	 N  0 2000 4000 6000 Metres Projection : AMG - Zone 51	Compiled : J.Howland Drawn : M.Schaffer Loc : Melbourne Scale : 1 : 250,000 Date : 11/8/99 Revised : 11/8/99 APR : Lake Violet Plot No. : // Figure : 2	<b>Eagle Mining Corporation N.L.</b> A.C.N. 009 207 087  <b>Lake Violet</b> <b>Exploration Index PLAN</b>





## **APPENDIX I**

**AC DRILL HOLE COLLAR, ASSAY AND LITHOLOGY FILES  
(GBRA 1-6, 10-12, 14-40, 59-66, 81-87, OUTA 1-12, TWFA 10-17)**

## **APPENDIX II**

**RAB DRILL HOLE COLLAR, ASSAY AND LITHOLOGY FILES  
(GBRB 107, 123-165, 194-195, 201-212, 231-234, 240-248, 250-253, 255-267, 272-288, OUTB 1-19, TWFB 1-4, 6-18)**