

# 98-4199



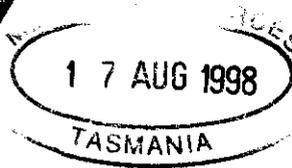
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*Relinquishment Report  
May 1998*

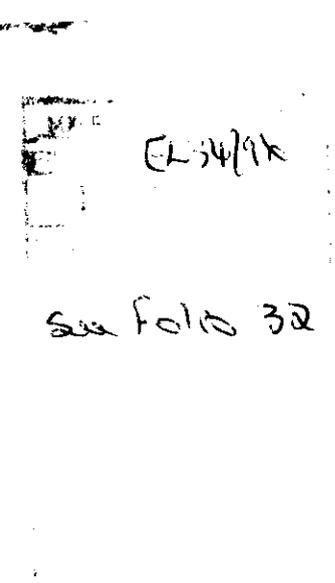
*Tasmanian Base Metals Project*

*E.L.34/96*

*Hatfield River*



Vol 1 of 1



**HELD BY: RGC Exploration Pty Ltd**

**MANAGER & OPERATOR: RGC Exploration Pty Ltd**

**AUTHOR(s): Adam Elliston**

**MICROFILMED**  
FICHE No. 014728-29

12 May, 1998

**PROSPECTS:**

**MAP SHEETS:** 1:25,000: Charter 1:100,000: Sophia

**GEOGRAPHIC COORDS** Min East: 376000 mE Max East: 386000mE  
Min North: 5 393000 mN Max North: 5 402000 mN

**COMMODITY(s):** Cu, Pb, Zn, Ag, Au

**KEY WORDS:** Massive sulphide, mapping, alteration

**Distribution:**

- o RGC Exploration Information Centre
- o RGC Exploration Office - Zeehan
- Tasmanian Department of Mines

# 98-4199

RELINQUISHMENT REPORT  
EL 34/96 - HATFIELD RIVER-RGC  
A ELLISTON

**SUMMARY**

Exploration Licence 34/96 Hatfield River is currently held by RGC Exploration Pty Ltd. Work to date and a change in exploration strategy have led to the conclusion that the licence does not warrant further exploration in the foreseeable future by RGC.

EL 34/96 is mostly made up of Cambrian sediments and volcanics of the Dundas Group with a sequence of greywackes, sandstones, siltstones and conglomerates dominating the west, quartzites, slates and siltstones present in the central portion and quartz feldspar porphyries and tuffaceous units to the east.

Younger cover rocks include Quaternary glacial alluvium and Tertiary basalts over the entire north and some areas in the east of the tenement.

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## 1. INTRODUCTION

Exploration licence 34/96 is held and operated by RGC Exploration Pty Ltd and was granted on the 8<sup>th</sup> November 1996 for an initial term of five years. Geographically the tenement is situated on the rugged west coast area of Tasmania approximately 20 km north of the township of Tullah (figure 1).

Access to the area is via the Murchison Highway and then logging tracks which are not accessible unless a key for locked gates is obtained from North Forests. Permission must be granted from the Emu Bay Railway when access to the railway line is required.

Vegetation in the area varies from relatively flat button grass plains to the east to steep heavily wooded topography in the western two thirds of the licence; this area making access and therefore exploration difficult.

Exploration Licence 34/96 "Hatfield River" was purposefully acquired in an effort to establish a reliable geological picture of the region and to see if interpreted Tyndall Group correlate rocks exist as exposed to the south in the North Pinnacles area.

## 2. LAND TENURE

Exploration Licence 34/96 comprises:-

- Private property
- Crown Land - Subject to DELM approval
- Crown Land
- Crown Land - Deferred Forest land
- State Forest - Multiple Use Forest Land

The area also contains part of the Tarkine Wilderness Area, under the auspices of the Australian Heritage Commission Act as an interim listing.

## 3. PREVIOUS EXPLORATION

Relevant exploration in the area started in the early seventies and continued relatively continuously until 1985 after which no real exploration was conducted until RGC was granted tenure in 1996.

A detailed review of past exploration can be seen in the 1996-97 RGC Exploration Annual report for EL34/96.

## 4. PREVIOUS WORK COMPLETED BY RGC EXPLORATION



# EL 34/96 Hatfield River Locality Plan



1:100,000

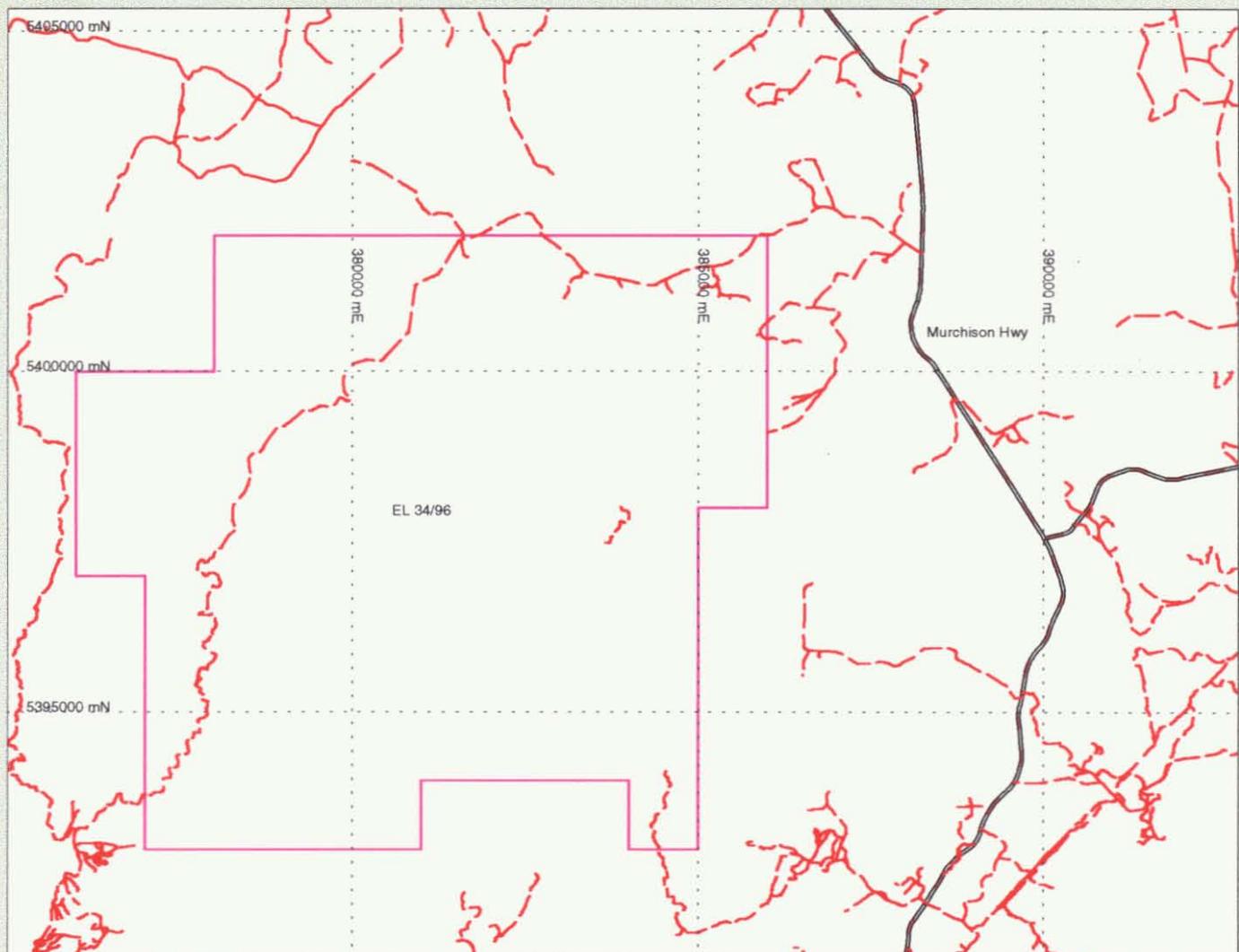


Figure 1

For previous exploration completed by RGC Exploration on EL 34/96 details are reported in the 1996 -97 Annual Report (Elliston 1997).

A summary of this report with regards to exploration carried out is detailed as follows:-

Access	7.5km of track cutting
Geology	Literature review of previous exploration Geological mapping

## **5. WORK COMPLETED BY RGC EXPLORATION 1997 - 1998**

### **5.1 Track Cutting**

A further 7.3 km of track was cut in the forested central portions of the tenement to gain access and facilitate further mapping. As with last years annual report access to the eastern origins of each line was needed by using the Emu Bay Railway Line which was restricted to those weekends when no trains were scheduled.

### **5.2 Geological Mapping**

Geological mapping continued along the grids cut on the tenement and was completed in January 1998. The regional geology of the tenement consists of two distinct sedimentary packages of the Dundas Group with rocks to the west and to some degree east of the Hatfield River consisting of typical flysch type turbidite derived rocks such as mudstones, siltstones, sandstones, greywackes and conglomerates. These rocks display moderate to steep dips to the east. Opposing this sequence is a westerly dipping package of more siliceous sediments consisting of interbedded siltstones, quartzites and minor greywackes and conglomerates.

In the far south east of the tenements quartz feldspar porphyritic rocks and some volcanoclastic sandstones are present. The entire northern portion and a large extensive area of the eastern part of the tenement is overlain by Tertiary basalt and subordinate Quaternary glacial deposits.

Fact Geology and Interpretive Geology are attached as Plans 1 and 2 respectively within this report.

## **6. RECOMMENDATIONS**

During RGC's tenure of EL34/96 gave little encouragement with regards to further prospectivity. The exploration rationale of Tyndall Group correlates and possible Henty style mineralisation extending into south west of the tenement was down graded, with mapping not encountering any favourable stratigraphy or rock types.

Due to new strategic directions within RGC Exploration, it is considered that EL 34/96 Hatfield River does not meet the criteria with regards to its potential to host a significant mineralised deposit. RGC have therefore decided to relinquish the tenement.

**7. REFERENCES**

- ELLISTON, A, 1997** Annual Report November 1996 - November 1997.  
Tasmanian Base Metals Project. EL 34/96. RGC  
Exploration Pty Ltd

**APPENDIX 1**

**LIST OF DIGITAL DATA SUPPLIED TO MINERAL  
RESOURCES TASMANIA**

**List of digital data supplied to Mineral Resources Tasmania**

**Geology      1:10,000 Geological Interpretation (Mapinfo Format).**

**APPENDIX 2**

**ZEEHAN ROCK CODES**

**RGC EXPLORATION (ZEEHAN) - ROCK CODES**

**TYPE**

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

**COMPOSITION**

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

**CRYSTAL TYPE**

- X - Crystal rich
- A - Aphyric
- F - Feldspar phyrlic
- < - Feldspar - quartz phyrlic
- > - Quartz - feldspar phyrlic
- Q - Quartz phyrlic
- H - Hornblende phyrlic
- P - Pyroxene phyrlic
- B - Biotite phyrlic
- V - Vitric / glassy
- L - Lithic rich
- R - Reworked, commonly with Carbonate matrix

**OTHERS**

- Qg - Quaternary glacials
- TB - Tertiary Basalt
- TILL - Glacial moraine
- CLAY - Glacial clays
- SILT - Black pyritic siltstone
- FALT - Fault
- CARB - Massive Carbonate
- CBBX - Carbonate breccia
- VEIN - Vein
- GWAC - Greywacke
- Cgl - Siliciclastic Conglomerate
- Sst/Slst - Sandstone/siltstone
- XXXX/YYYY - Interbedded units

**GRAINSIZE**

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

**ALTERATION**

- P - Pyrite
- \$ - Mineralised
- Q - Quartz
- O - Chlorite
- C - Carbonate
- H - Hematite
- S - Sericite
- K - K feldspar
- A - Albite
- E - Epidote
- F - Fuchsite
- M - Magnetite
- L - Limonite

**N - Scale**

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

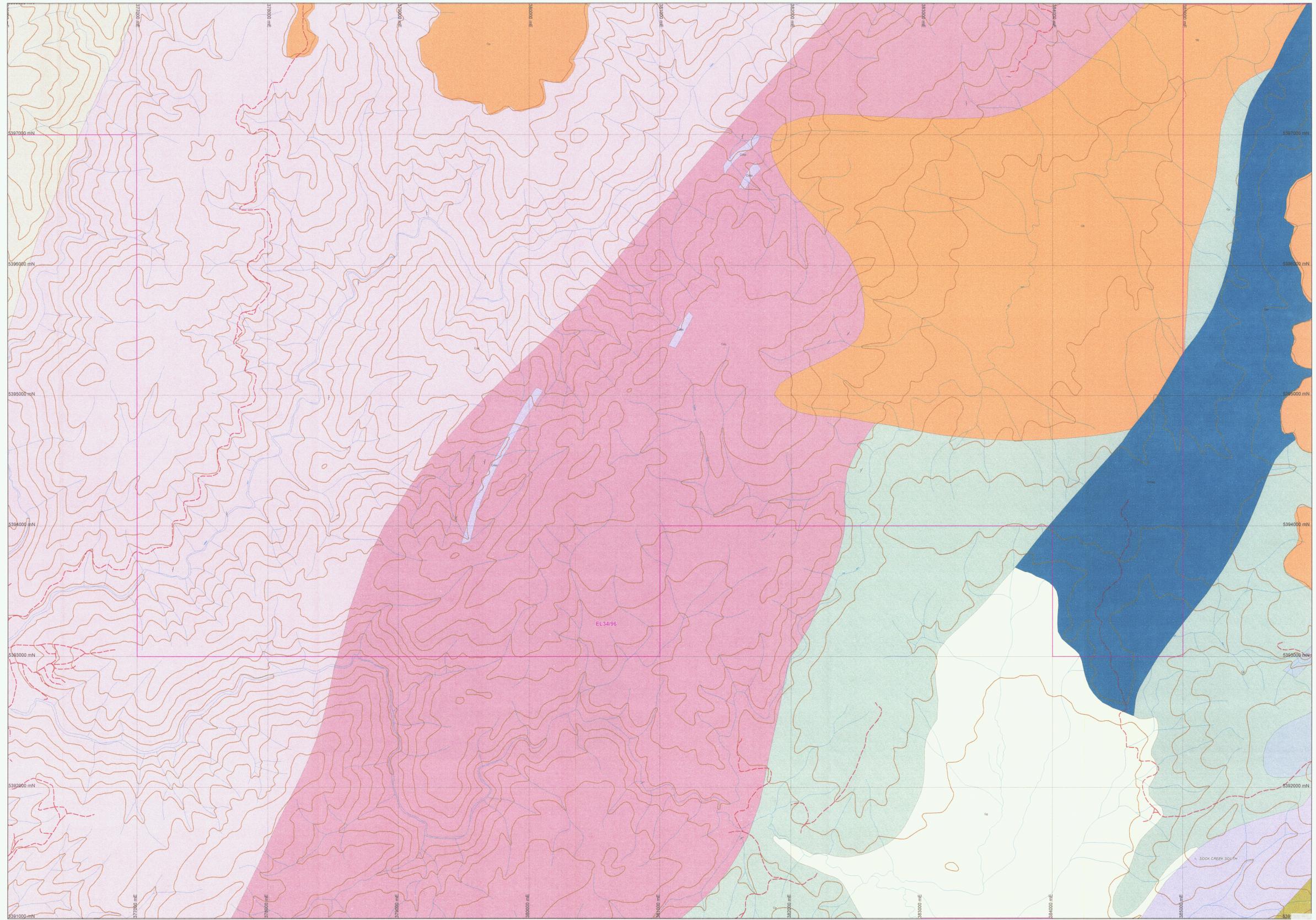
eg. AOC7

Strong albite-chlorite-carbonate alteration  
(albite>chlorite>carbonate, albite = 7)





- Qg Glacial and fluvioglacial deposits
- T8 Tertiary Basalt
- P8 Quartzites & slates of Ooanah Formation
- C8P1 Dominantly siltstone, sandstone, micaceous greywacke and conglomerate
- C8P2 Quartz feldspar porphyry
- Undifferentiated sediments
- C8P3 Predominantly black siltstone
- C8P4 Que - Hellyer Volcanics undifferentiated
- C8P5 Micaceous Greywacke
- C8P6 Quartzwacke interbedded with siliceous mudstones, siltstones and minor conglomerate
- C8P7 Quartzwacke interbedded with siliceous mudstones, siltstones and dominant conglomerate



Geological boundary, accurate	Underground Mine	Built up populated area	Named Relief Feature	Cave, Cavern	Highway
Geological boundary, inferred	Open Cut Mine	Homestead (Pastoral)	Mountain or mountain range	Island	Secondary Road
Fault feature	Mineral Deposit	Building	Pass	Plant	Minor Road
Fault position accurate	Mineral occurrence	Railway Station	Cliff, Escarpment, Breakway	Pool, Pond, Waterhole, Rockhole	Vehicle Track
Inferred Fault	Prospect, explored	Beacon, Lighthouse	Sand Ridge or Sand Dunes	Swamp	Runway
Concealed Fault	Abandoned Mine	Airport or Aerodrome	Spur, Spur line	Wetland	Landing Ground
	Bridge	Dam	Rock	Dam	Powerline
	Road tunnel	Spring	Plateau	Contour line	Watercourse
	Monument, Statue, Cross	Ford	Valley	Fennel Lake	
	Landmark Object	Marina, Mooring Pier, Port	Gully, Gap		

Scale 1 : 10 000

Distances in Metres  
Contour Interval 5m  
AMG Zone 58

Luina 3540	12	Pearse 3540
Ramsay 3539	11	Charter 3839
Parsons 3638	10	Block 3838
Rosebery 3637	9	Tullah 3837
Dundas 3636	8	Selina 3836
Oscana 3635	7	Tyndall 3835

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Regional Topography

Regional MRT Geology

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**RGC Exploration**

**Mt Read Volcanics Belt  
Tasmania  
SHEET 11  
GEOLOGICAL INTERPRETATION**

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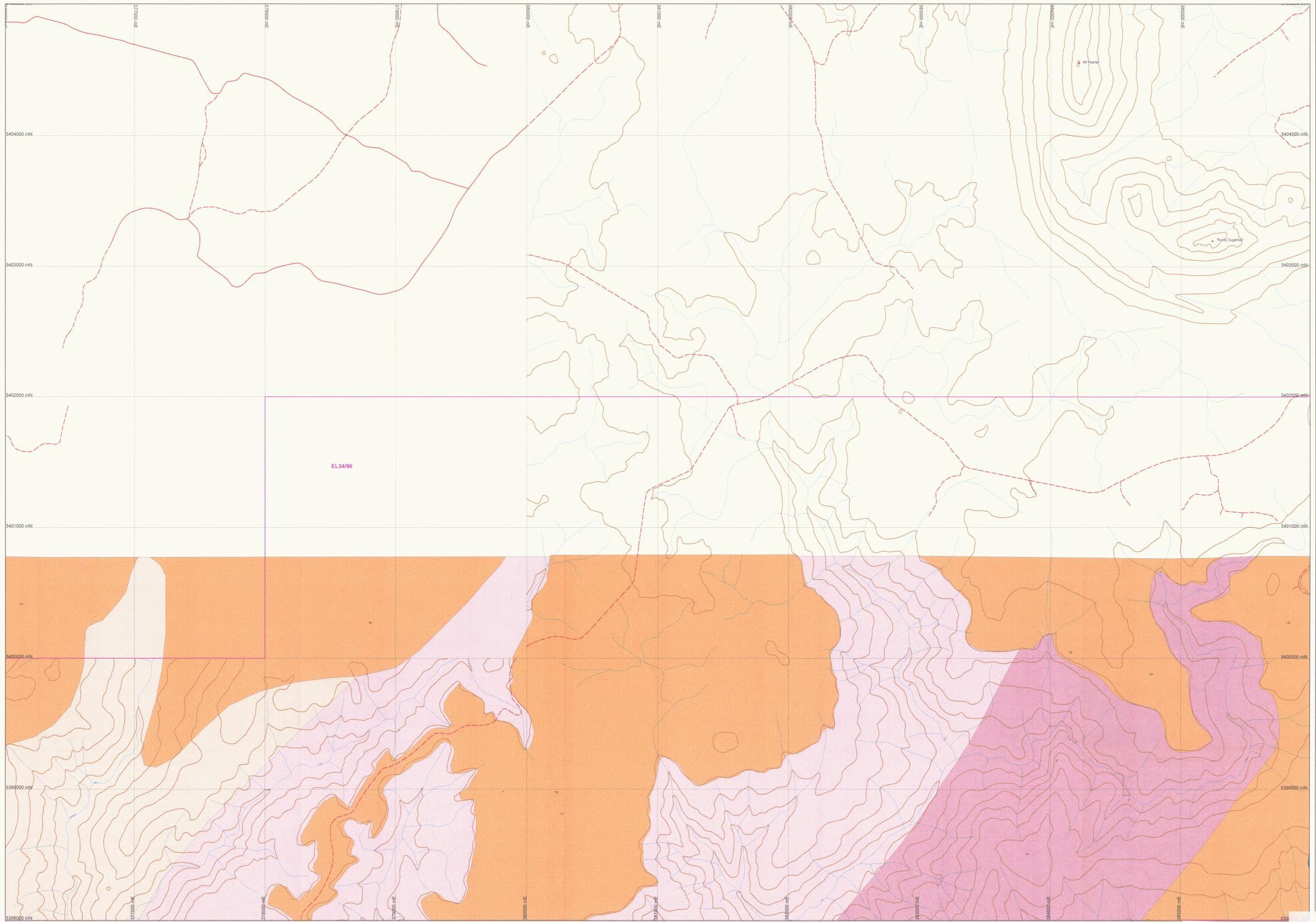
**PLAN 3**

5 cm

98-4199

REVISION REPORT  
BY: JAMES A. HILLSTON

- Gg Glacial and fluvioglacial deposits
- TB Tertiary Basalt
- Po Quartzites & slates of Ooanah Formation
- Cdkl Dominantly siltstone, sandstone, micaceous greywacke and conglomerate
- Cp Quartz feldspar porphyry
- Uvsf Undifferentiated sediments
- Cqrs Predominantly black siltstone
- Cqhf Que - Hellyer Volcanics undifferentiated
- Cmwf Micaceous Greywacke
- Cdkz Quartzwacke interbedded with siliceous mudstone siltstones and minor conglomerate
- Cdkp Quartzwacke interbedded with siliceous mudstone siltstones and dominant conglomerate

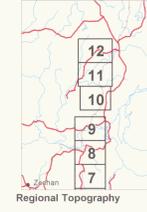


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Scale 1 : 10 000  
 Distances in Metres  
 Contour Interval 5m  
 AMG Zone 58

Lynn 3540	12	Pearse 3840
Ramsay 3539	11	Charter 3839
Parsons 3538	10	Block 3838
Rosebery 3537	9	Tullah 3837
Dundas 3536	8	Selina 3836
Oceana 3535	7	Tyndall 3835

Sheet Index



**RGC Exploration**  
**Mt Read Volcanics Belt**  
**Tasmania**  
**SHEET 12**  
**GEOLOGICAL INTERPRETATION**

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 PLAN 4

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 EL34/96