

# EL36/2010 Mt Donaldson Annual

## Report 2014

November 2013 – November 2014

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# Abstract

The initial aim of exploration on EL36/2010 was to locate the Mt Donaldson Hydraulic workings and see if the gold in the tertiary gravels could have been derived locally. Old reports indicated there was pyrite with the gold in the basal layers of the gravels. The workings were not exactly, but were approximately located at the head of Guthries Ck. and prospecting in the area located a vein of pyrites, which carried no gold, which downgraded the prospectivity of the area.

Attention was transferred to the Middletons Ck area, with a similar aim to locate the source of the gold found in the alluvial workings.

A review of the MRT geophysics over EL36/2010 was conducted and this shows a magnetic high on Elizabeth Ridge, parallel to Middletons Ck. The old alluvial workings were mapped and examined. Previous exploration and sampling indicated there was no gold shedding from Elizabeth Ridge, other than from possible perched gravels.

A conclusion was drawn that the gold in Middletons Ck may be sourced from a large structure, laying underneath the gravels of Middletons Ck. To confirm this supposition a drillhole is required through the gravels and the structure. Such a task is beyond the resources of Ron Gregory Prospecting and the current exploration market was thought to not provide any other interested parties to fund the required major works. Therefore a decision was made in mid-2014 to surrender the Licence.

An approach was made by Mr. Steven Poke, of E Drill Pty Ltd (5<sup>th</sup> Dec 2014), to review the prospectivity of the Middletons Ck Prospect, with a view to funding a 150m diamond cored drill hole, in return for equity.

Therefore the majority of the Licence is surrendered, retaining the Middletons Ck Prospect, until the outcome of negotiations is known.



# Contents

<b>1. Introduction</b>	<b>1</b>
1.1 Report Datum	1
1.2 Exploration Rationale	1
1.3 Geological Setting	1
1.4 Licence Information	2
1.4.1 Licence Number	2
1.4.2 Licence Name	2
1.4.3 Licence Location	2
1.4.4 Reporting Period	2
1.4.5 Tenement Holder	2
<b>2. Previous Work</b>	<b>2</b>
2.1 Work Prior to Current Licence	2
<b>3. Exploration</b>	<b>3</b>
3.1 Desktop Studies	3
3.2 Regional Exploration Activities	3
3.3 Prospect-based Exploration Activities	3-4
3.3.1 Prospect-based Exploration Activities	3-4
3.3.2 Geology	4
3.3.3 Geochemistry	4
3.3.4 Geophysics	4
3.3.5 Remote Sensing	4
3.3.6 Drilling	4
3.3.7 Ore Reserves and Resources	4
3.3.8 3D Modelling	4
<b>4. Results</b>	<b>5</b>
<b>5. Conclusions</b>	<b>5</b>
5.1 Conclusions	5
5.2 Recommendations	5
<b>6. Environment</b>	<b>5</b>
<b>7. Expenditure</b>	<b>5</b>
<b>8. References</b>	<b>5</b>
<b>9. Appendices</b>	<b>6</b>

## FIGURES

Figure 1 – Location Plan

Figure 2 – Surrender Plan

# 1. Introduction

Following exploration in the Sabbath & Guthries Creeks area in the north of EL36/2010 in 2011-2013, a decision was made to focus on the southern part of the Licence at Middletons Ck.

A review of the MRT aerial geophysics over the whole Licence was conducted by Phil Muir. This revealed a major structure, trending north/south and parallel to Middletons Creek. The Report was reviewed by Mr. Ken Morrison and advice given on work that could be conducted prior to drilling. Following an examination of the Middletons Ck goldfield by Ron Gregory Prospecting, together with consultation and a review of previous exploration by Mr. Hugh Nolan, a decision was made in consultation with Mr. Morrison; to surrender the Licence. It is believed that the gold in Middletons Ck has not shed from magnetically high, Elizabeth Ridge, but from the magnetic low, beneath Middletons Ck. Drilling such a structure is beyond the resources of Ron Gregory Prospecting at this time.

Therefore further expenditure was stopped and a decision made mid-2014 to surrender the Licence.

On the 5<sup>th</sup> Dec 2014, Mr Steven Poke of E-Drill Pty Ltd, made an approach to consider funding a +/- 150m diamond cored drill hole, in return for equity. Therefore the un-prospective portions of the Licence have been surrendered and the Middletons Ck Prospect retained, with a view to furthering negotiations with Mr Poke. See Figure 2.

Should negotiations with Mr Poke prove unsuccessful, recent increases in the Australian gold price may produce suitable investors.

## 1.1 Report Datum

GDA94

## 1.2 Exploration Rationale

The aim of the current exploration program on EL 36/2010 is to establish the source of the alluvial gold found in tertiary gravels in the Corinna district.

## 1.3 Geological Setting

The geology of the Corinna licence EL 36/2010 is part of the Arthur Lineament which separates the western Ahrberg Group lithologies from the more easterly low strain zones of the Oonah Group.

Rocks within the tenement are part of a complex tectonic zone consisting of a linear belt of sheared and highly strained lithologies composed of Cambrian metasedimentary and mafic igneous lithologies of the eastern Ahrberg Group including Savage Dolomites, Bernafai Volcanics and sediments of the Donaldson Group.

Within the tenement, the Savage Dolomites are mostly pale grey and cream fine grained oolitic dolomites with stromatolites, variable silicified dolomites and silica flour (Turner et al 1992). Overlying the dolomites in the vicinity of Elizabeth Ridge are found the Bernafai Volcanics. These volcanics are a sequence of mafic lavas and shallow intrusive, schistose volcanoclastics and volcanogenic mudstones (Henham 1990).

## 1.4 Licence Information

### 1.4.1 Licence Number

EL36/2010

### 1.4.2 Licence Name

Mt Donaldson

### 1.4.3 Licence Location

Mt Donaldson and Middletons Ck at Corinna  
See Figure 1

### 1.4.4 Reporting Period

24<sup>th</sup> November 2013 – 23<sup>rd</sup> November 2014

### 1.4.5 Tenement Holder

Ron Gregory  
Trading as – Ron Gregory Prospecting

## 2. Previous Work

### 2.1 Work Prior to Current Licence

A review of past exploration was done in the 2013 Annual Report (Gregory, 2013).

The following are notes from the report.

Middletons Ck, near Corinna was one of the first creeks worked for alluvial gold in 1879. Previous reporting on the alluvial/hydraulic workings was done by Thureau in 1881 (OS\_026) and Montgomery in 1894 (OS\_113) and Blake (UR\_1939\_26\_46, which make little mention of a hardrock gold source.

Serious exploration for a hardrock source to the gold in Middletons Creek seems to have first been promulgated by Hugh Nolan who entered in to a JV with Aberfoyle on EL35\_1985.

The following are extracts from Ross Larges' Annual Report (88\_2767) in January 1988 are pertinent.

*"It appears that the dolomite-mudstone contact is an important control on the localization of bedrock gold in the district."*

The MRT report "Geology and genesis of silica flour and gold in the Corinna district, western Tasmania" (Zaw, Turner, Large, Nolan and Mernagh) indicates:

*"The close association of silica flour and gold grains in the Corinna area suggests a genetic link, and the gold may have been derived from the same silica flour-forming fluids" and "Gold grains may have been derived from carbonate (dolomite)-hosted, Carlin-type deposits which are yet to be discovered in the area"*

There has been no other work in the Middletons Ck area that has come to notice at this time.

## 3. Exploration

### 3.1 Desktop Studies

Mr. Phil Muir (SMEG) provided a Report on the publically available geophysics over EL36/2010. This is provided in full at **Appendix 1**. The following are the Conclusions and Recommendations from the Report.

#### “ Conclusions and Recommendations

Based on the airborne magnetic and radiometric data, the best target for further exploration work would seem to be along the eastern side of Elizabeth Ridge where it slopes into Middleton Creek. This slope hosts the positions of several discrete magnetic anomalies as well as a distinct trend of high K/Th ratio radiometric anomalies which is suggestive of alteration. MRT geological mapping suggests that these geophysical anomalies are approximately coincident with the contact between the Bernafai Volcanics and Corinna Dolomite; this contact is the Brookside Fault which is a significant structural feature through the area and is associated with the Brookside workings further to the NE.”

Mr Ken Morrison provided a Report on Middletons Creek and the Phil Muir’s Report. See **Appendix 2**.

His recommendations were as follows:

1. “Ground check, map and sample any hard rock workings identified by literature searches of historic mining records and modern company exploration reports.
2. Collect coarse detrital gold specimens and investigate their origin by scanning electron microscopy.
3. Collect specimens of chalcedonic and cherty quartz associated with placer gold and investigate their origin by fluid inclusion formation temperature studies, trace element concentrations and reflected light microscopy.
4. Run three northwesterly trending 500 metre long soil sampling traverses, with 20 metre sample spacing, across the Middleton Creek-Brookside Fault-Elizabeth Ridge terrain. The soil lines would be spaced approximately 1000 metres apart and would span the area of known gold workings in Middleton Creek.”

### 3.2 Regional Exploration Activities

No regional exploration was conducted in 2013-2014

### 3.3 Prospect-based Exploration Activities

#### **Middletons Ck Prospect 2014**

Several field visits to Middletons Creek were conducted to examine old workings and geology.

The review of literature, and ground check was done Ron Gregory.

Fogartys Creek, Western Explorer road cutting and Elizabeth Ridge was examined in detail. Other than Fogartys Creek there were no old workings or mineralisation were found.

4.

Fogartys Creek workings is believed to be perched alluvial gravels, with gold being found in a iron oxide cemented layer a few centimeters above bedrock. The gold was the normal rounded and flattened specimens found in Middletons Ck. There are anecdotal reports by fossickers of crystalline and jagged gold specimens, but none were located.

I formed the judgment that Brookside Fault is below Middletons Creek and therefore covered by gravel. Therefore Ken Morrison's recommendations 3 & 4 were not proceeded with.

Should the fault be producing gold then the only way to test, in my opinion would be to drill (diamond) from the East side of Middletons Creek (presumably gravel overlying dolomite) towards the West and into rocks (mudstones of the Bernafai formation) comprising Elizabeth Ridge.

Such a drilling proposal is beyond the resources of Ron Gregory Prospecting at this time and a decision was made to surrender the Licence.

An approach in late 2014 was made by Mr. Stephen Poke of E Drill to consider a Joint Venture for him to drill the hole. Negotiations are continuing. Consequently on the advice of Ken Morrison it was decided to surrender all of the Licence except that pertaining to Middletons Creek. and negotiate a drilling Joint Venture with Steve poke in 2015.

An exercise of locating and mapping the old workings in Middletons Creek is underway by Paul & Lyndsey Gray with a report to be provided in 2015.

### **3.3.2 Geology**

See **Appendices 2 & 3**

### **3.3.3 Geochemistry**

No Geochemistry was conducted.

### **3.3.4 Geophysics**

See **Appendix 1**

### **3.3.5 Remote Sensing**

No Remote Sensing was conducted in 2013 – 2014

### **3.3.6 Drilling**

No drilling was conducted in 2013-2014

5.

### 3.3.7 Ore Reserves and Resources

Not applicable

### 3.3.8 3D Modelling

Not applicable

## 4. Results

No results can be drawn at this time.

## 5. Conclusions

### 5.1 Conclusions

No conclusions can be drawn at this time

### 5.2 Recommendations

Middletons Creek is worthy of follow-up work.

## 6. Environment

No environmental impact was done by the work conducted to date.

## 7. Expenditure

2012 - \$13,900

2013 - \$21,633

2014 - \$8,665

**Total - \$44,198**

## 8. References

88\_2767 Annual Report EL57/83 Large R. R. for Cominex

88\_2886 Annual Report EL57/83 Nolan H. D. for Cominex

88\_2887 Annual Report EL57/83 Nolan H. D. for Cominex

89\_2934 Annual Report EL35/85 Nolan H. D. for Cominex

GSB70\_96 Geology and genesis of silica flour and gold in the Corinna district,

western Tasmania – Khin Zaw, Turner N. J., Large R. R., Nolan H. D. &

Mernagh T.

## 9. Appendices

### **Appendix 1**

Report on Aeromagnetic Data – EL36/2010

Southern Mineral Exploration Geophysics (SMEG) – Aug 2014

### **Appendix 2**

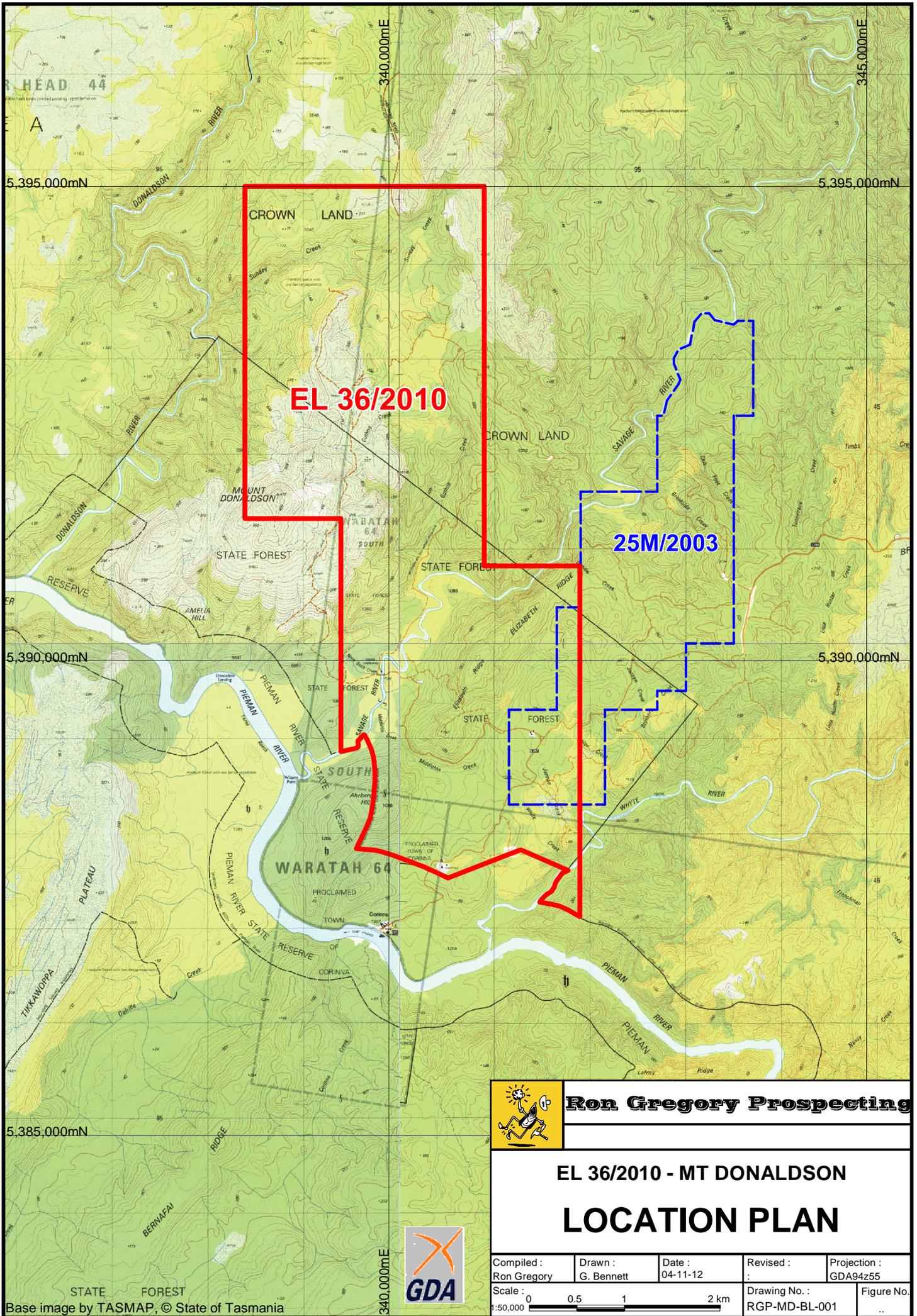
Report on the Geology and Gold Potential – EL36/2010

K. C. Morrison – Nov 2013

### **Appendix 3**

Corinna Drilling Proposal – EL36/2010

K. C. Morrison – Dec 2014



**EL 36/2010**

**25M/2003**



**Ron Gregory Prospecting**

**EL 36/2010 - MT DONALDSON**

**LOCATION PLAN**

Compiled : Ron Gregory	Drawn : G. Bennett	Date : 04-11-12	Revised : :	Projection : GDA94z55
Scale : 1:50,000			Drawing No. : RGP-MD-BL-001	Figure No. : ..





**AREA FOR REDUCTION**

**EL36/2010**

**1699P/M**



**Ron Gregory Prospecting**

**EL 36/2010 - MT DONALDSON  
AREA FOR REDUCTION**

Compiled : Ron Gregory	Drawn : DraftingWorks	Date : 08/12/2014	Revised : 	Projection : GDA94 Zone 55
Scale : 1:30,000			Drawing No. : RGP-MD-TL-011	Figure No. : 