

Unity Mining Limited  
Gog Range Joint Venture  
EL 2/2009 Beulah  
Partial Relinquishment Report  
Vol. 1 of 1  
September 2014

<b>Held by:</b>	Greatland Pty Ltd
<b>Manager &amp; Operator</b>	Unity Mining Limited
<b>Author:</b>	P.G. Stonestreet
<b>Date:</b>	September 2014
<b>Map Sheets:</b>	Tasmania 1:25,000 Series Cethana (4240) Wilmot (4241) Gog (4440) Sheffield (4441) Tasmania 1:100,000 Series Forth (8115)
<b>Geographic Co-ord (GDA94):</b>	Minimum East: 428,000 m Maximum East: 452,000 m Minimum North: 5,407,000 m Maximum North: 5,416,000 m
<b>Commodities:</b>	Base metals, gold, silver

## **1.0 ABSTRACT**

Unity Mining Ltd (UML) commenced exploration on EL 2/2009 Beulah from late 2011, as manager and operator of the Gog Range Joint Venture, in a farm-in agreement with tenement holder Greatland Pty Ltd.

UML is relinquishing 60 square kilometres from the 105 square kilometres that comprise EL2/2009. Those areas to be relinquished are not considered exploration priority targets, and no work was done on them.

UML intends to continue exploration of EL 2/2009 Beulah in 2014-2015, with more intensive field work planned to identify and drill test gold mineralisation targets. Review of all available exploration data is in progress for detailed planning of field programs. EL 2/2009 Beulah is due for expiry on 21 June 2015.

**TABLE OF CONTENTS**

**1.0 ABSTRACT ..... 2**  
**2.0 INTRODUCTION ..... 4**  
    2.1 Location & Access ..... 4  
    2.2 Topography Climate and Vegetation..... 6  
**3.0 GEOLOGY AND PREVIOUS EXPLORATION..... 6**  
**4.0 AREAS TO BE RELINQUISHED ..... 6**  
**5.0 CONCLUSION ..... 9**  
**6.0 REFERENCES ..... 10**  
**7.0 BIBLIOGRAPHY..... 10**

**TABLE OF FIGURES**

**Figure 1: EL 2/2009 Beulah location map. Other tenements in Unity’s Gog Range Joint Venture are also shown. Projection is UTM MGA94 Zone 55 co-ordinate system. Base image by TASMAR (www.tasmap.tas.gov.au), © State of Tasmania..... 5**  
**Figure 2: Aerial view of the area relinquished in the western section of EL2/2009 Beulah. Projection is UTM MGA94 Zone 55 co-ordinate system..... 7**  
**Figure 3: Aerial view of the area relinquished in the eastern section of EL2/2009 Beulah. Projection is UTM MGA94 Zone 55 co-ordinate system..... 8**

## **2.0 INTRODUCTION**

This report details the partial relinquishment of 60 square kilometres of the 105 square kilometres of EL 2/2009 Beulah in September 2014. No work was undertaken on the areas to be relinquished.

UML intends to undertake more intensive field exploration on the unrelinquished part of the EL in the next 12 months, including drilling to test the Star of the West mine area, pending favorable results from the proposed 3DIP Survey. Further review of past exploration programs is in progress.

EL 2/2009 Beulah area is located partly within the Mt Roland Regional Reserve. Any exploration activity proposed on the tenement requires assessment by and approval from the Mineral Exploration Working Group (MEWG).

EL 2/2009 Beulah expires on 21 June 2015.

### **2.1 Location & Access**

EL 2/2009 Beulah is located 30 km south of Devonport in central northern Tasmania, within the Municipality of Kentish. The EL is centred approximately 7 km south of Sheffield and 15 km northwest of Mole Creek (Figure 1). Gowrie Park, a village established by the Hydro Electric Commission in the 1960s during construction of the Mersey-Forth hydroelectric scheme, is located in the far western section of the EL. The small rural settlements of Beulah and Lower Beulah lie within the eastern portion of the tenement.

The central eastern section of the EL is traversed by Paradise Road-Union Bridge Road (C137) which links Sheffield and Mole Creek. Principal access through the EL area from this sealed minor road is via unsealed forestry roads, then by a network of four-wheel drive tracks. Main access through the western section of the EL is via Claude Road (C136) and Staverton Road (C140), both sealed minor roads, and then by unsealed farm access roads and four-wheel drive tracks.

### **2.2 Tenure**

EL 2/2009 Beulah was granted to Greatland Pty Ltd on 22 June 2009 for a period of five years. The company tendered a successful bid to explore the tenement in accordance with Mineral Resources Tasmania's Exploration Release Areas process. The EL covers 105.0 sq km.

UML announced on 12 October 2011 a farm-in agreement with Greatland Pty Ltd to explore on four granted ELs in the Gog Range area, including EL 2/2009 Beulah. Under the terms of the agreement UML, as manager and operator, may earn a 51% interest by spending \$2 million within the initial two and a half years.

Proposed exploration activity on the EL requires assessment by and approval from the Mineral Exploration Working Group (MEWG). Approval of exploration programs is conditional upon the proponent meeting the requirements of the Mineral Exploration Code of Practice (MECOP) and all site specific conditions.

Much of the northern portion of the EL 2/2009 Beulah covers Private Land (Figure 2). The southwestern section extends over part of the Mt Roland Regional Reserve. Extensive areas of State Forest, with Informal Reserve – State Forest (Forestry Tasmania Managed Land) zones, are located in the southeastern section of the tenement. Mining Lease 24M/2000, covering 27 ha to the northeast of Gowrie Park, is excluded from the EL. The ML was granted for Category 3 Construction Minerals to J R Treloar in June 2001.

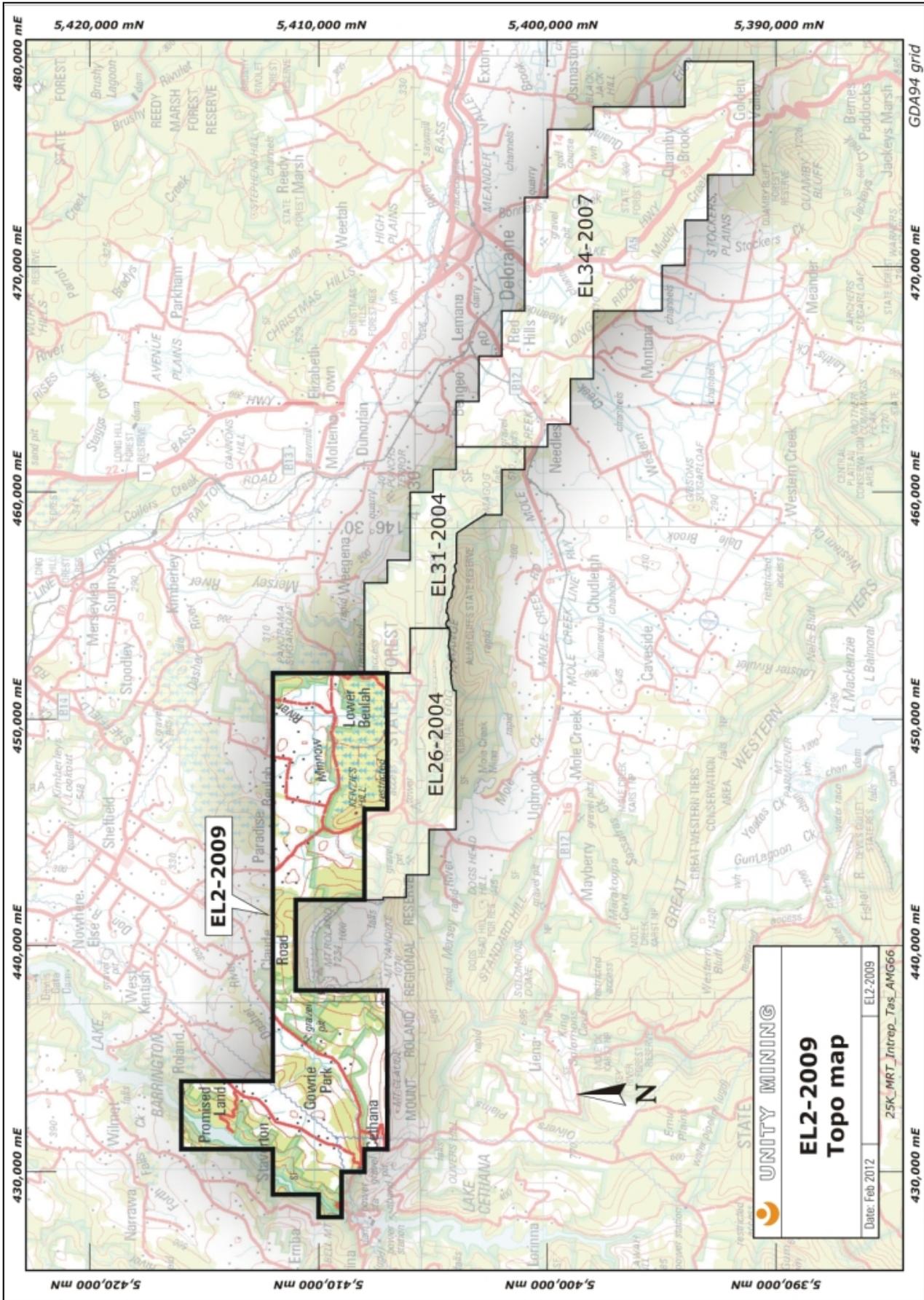


Figure 1: EL 2/2009 Beulah location map. Other tenements in Unity's Gog Range Joint Venture are also shown. Projection is UTM MGA94 Zone 55 co-ordinate system. Base image by TASMAR (www.tasmap.tas.gov.au), © State of Tasmania.

### **2.3 Topography Climate and Vegetation**

EL 2/2009 Beulah abuts the northern slopes of the Fossey Mountains range, which includes Mount Roland (elevation 1,233 m AHD), Mount Claude (1,034 m AHD) and Mount Van Dyke (1,084 m AHD). The Dasher River and Minnow River, within the Mersey River catchment, originate in and drain off this elevated terrain and flow to the northeast through the EL area. The far northwestern section of the EL covers part of Lake Barrington, created for hydroelectric power generation by damming of the Forth River.

Average rainfall calculated from observations at nearby Sheffield weather station (elevation 280 m AHD), over the period from 1906 – 1997, is 1,179 mm per year. Highest rainfall is in the June – August period. Occasional snowfalls occur during winter months at higher elevations.

The EL is located within the Northern Slopes bioregion. Extensive areas of eucalypt and pine (*Pinus radiata*) plantation forest have been established throughout the southeastern section of the EL area. Native forest, mainly wet sclerophyll, is preserved on the ridge and slopes of the Fossey Mountains Range and as remnants along river and creek valleys within the plantation forested areas. Scattered stands of low scrub, mainly banksia, teatree and eucalypt occur in relatively sheltered and fire resistant areas. Rainforest vegetation, including Myrtle Beech (*Nothofagus cunninghamii*), is preserved in sheltered gullies.

Agricultural land throughout the northern section of the EL is established on dissected Tertiary basalt terrain.

### **3.0 GEOLOGY AND PREVIOUS EXPLORATION**

The geology and previous exploration history of the area is detailed in Pallett, 2014, and is omitted here for succinctness. No work was done by Unity Mining on the areas to be relinquished.

### **4.0 AREAS TO BE RELINQUISHED**

The areas to be relinquished consists of two blocks comprised of 44 square kilometres in the western part of the lease (Figure 2), and 16 square kilometres in the eastern part of the lease (Figure 3), for a total of 60 square kilometres. The remaining area of lease to be held is 45 square kilometres. The western area of relinquishment stretches from 42800E-442000E and 5409000N-5416000N, and the eastern area from 448000E-452000E and 5408000N-5412000N (MGA94 Zone 55 co-ordinate projection system). Much of the relinquished area covers private land used for agriculture.

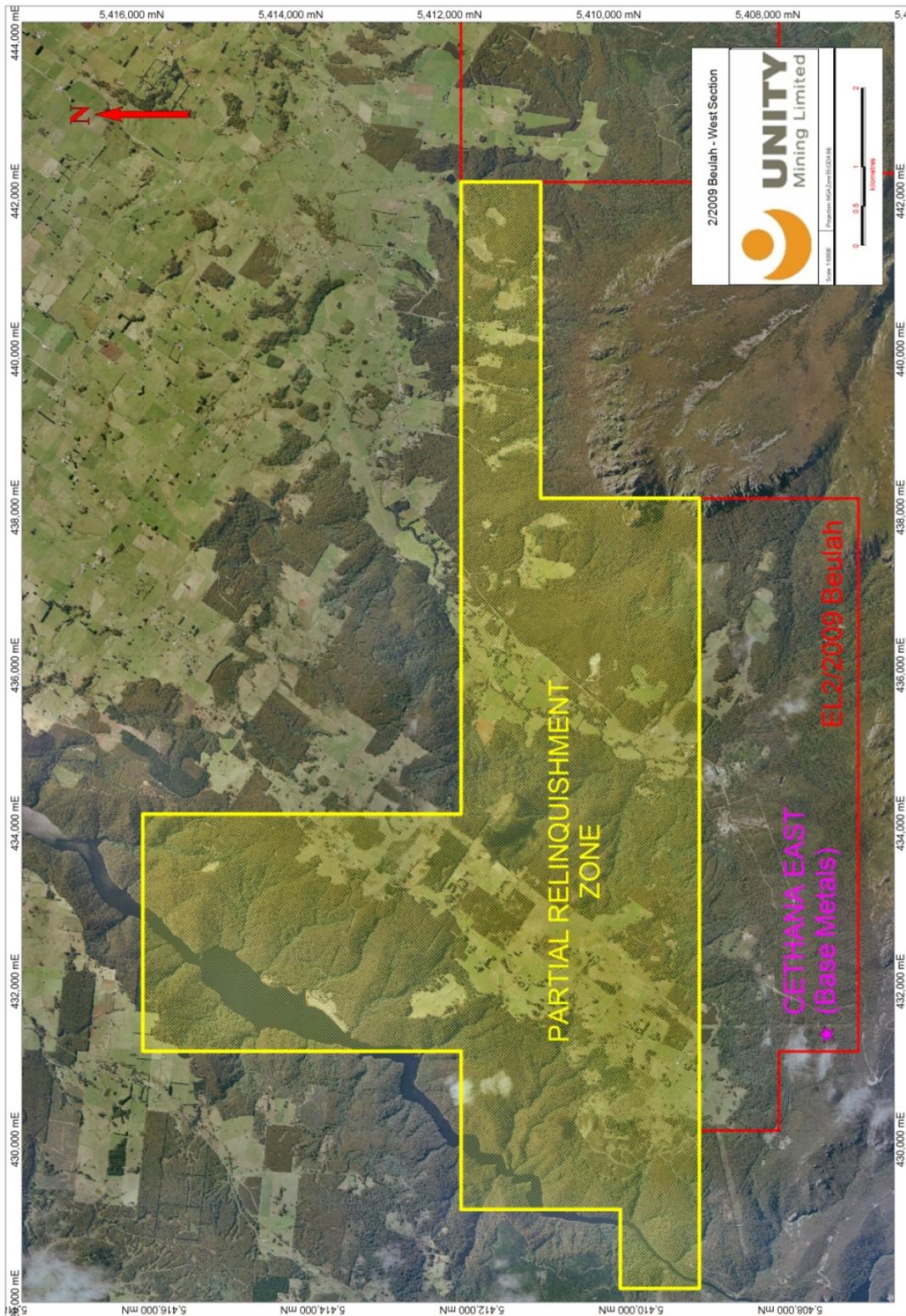


Figure 2: Aerial view of the area relinquished in the western section of EL2/2009 Beulah. Projection is UTM MGA94 Zone 55 co-ordinate system.

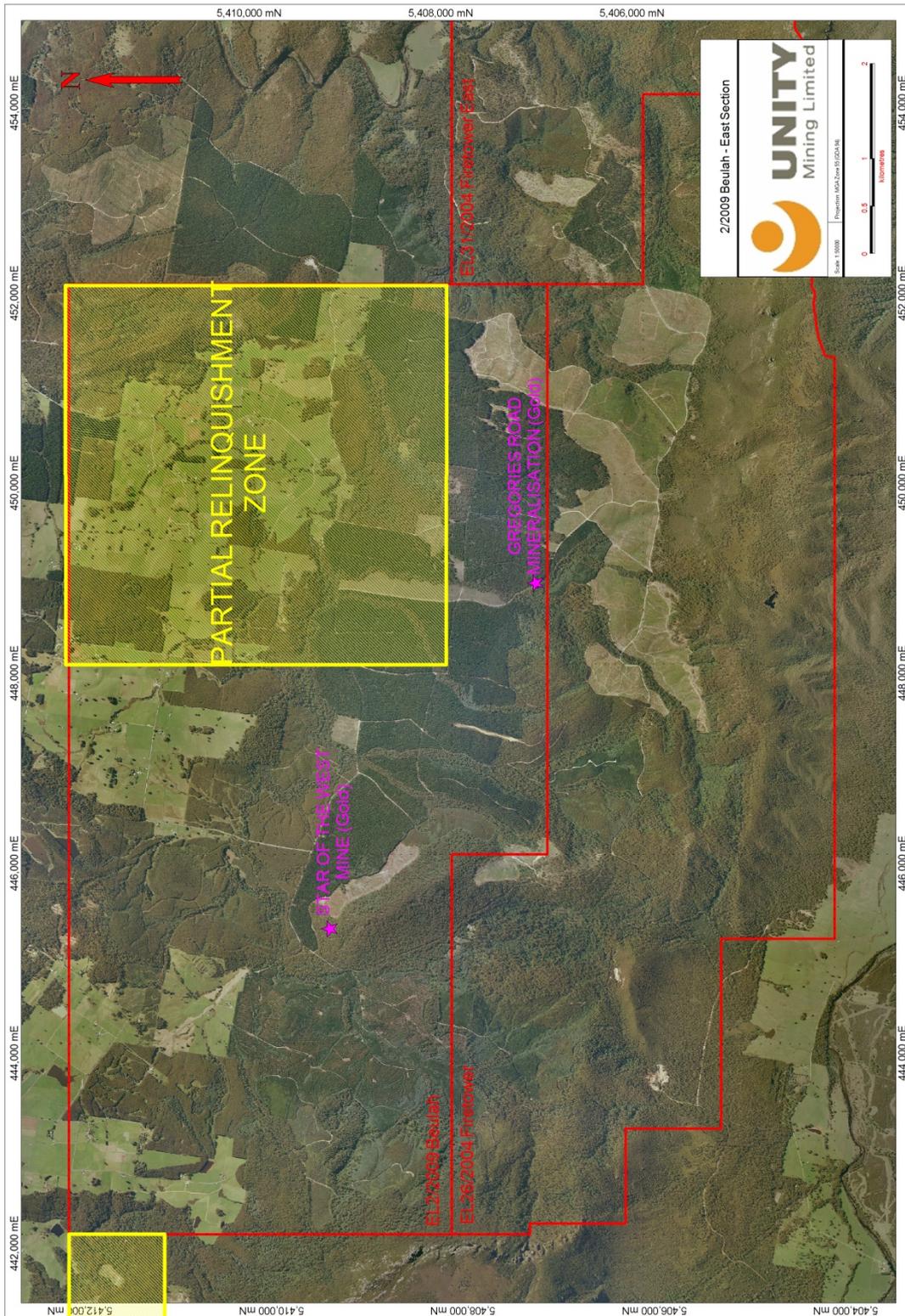


Figure 3: Aerial view of the area relinquished in the eastern section of EL2/2009 Beulah. Projection is UTM MGA94 Zone 55 co-ordinate system.

## **5.0 CONCLUSION**

Unity Mining intends to continue exploring on EL2/2009 as per indicated in the annual report for 2014 (Pallett, 2014), while relinquishing the areas indicated in this report. As no work was done on the relinquished areas, no conclusions are given as to the nature and distribution of any mineralisation in the area being surrendered.

## 6.0 REFERENCES

PALLETT, B. 2014. EL 2-2009 Beulah Annual Report for Period 23 June 2013 to 22 June 2014. Unity Mining Limited. Unpublished Company Report to Mineral Resources Tasmania.

## 7.0 BIBLIOGRAPHY

BAXTER, C. 2010. Annual Report for EL02/2009 Beulah for the Period 23 June 2009 to 22 June 2010. Greatland Pty Ltd. Unpublished Company Report to Mineral Resources Tasmania.

BAXTER, C. 2011. Annual Report for EL02/2009 Beulah for the Period 23 June 2010 to 22 June 2011. Greatland Pty Ltd. Unpublished Company Report to Mineral Resources Tasmania.

BERRY, R. F.; BULL, S. W. 2012. The Pre-Carboniferous Geology of Tasmania. Episodes Vol. 35 No. 1.

BLAKE, F. 1928. Preliminary Report on Barite in Tasmania. Unpublished Report to Department of Mines Tasmania UR1928A\_102\_114.

CALLAGHAN, T. 2002. Annual Report Gog EL12/2001 September 2001 – August 2002. Auriongold Exploration. Unpublished Company Report to Mineral Resources Tasmania.

EVANS, D. A.; Warren, A. Y. E. 2012. EL 2-2009 Beulah Annual Report for Period 23 June 2011 to 22 June 2012. Unity Mining Limited. Unpublished Company Report to Mineral Resources Tasmania.

EVANS, D. A.; 2013. EL 2-2009 Beulah Annual Report for Period 23 June 2012 to 22 June 2013. Unity Mining Limited. Unpublished Company Report to Mineral Resources Tasmania.

JACK, D. J. 1988. Exploration Licence 43/85 Beulah Tasmania Progress Report for the Year Ended April 29, 1988. Aberfoyle Resources Limited. Unpublished Company Report to Mineral Resources Tasmania.

JENNINGS, I. B. 1979. Geological Atlas 1 Mile Series. Zone 7 Sheet 37. Sheffield. Explanatory Report Department of Mines Tasmania.

KEELE, R. A. 1993. Structural Evolution of Northwestern Tasmania: With special reference to a section through the Fossey Trough. AMIRA Project P.291 Report. Structure and Mineralisation of Western Tasmania.

KITTO, J.; MORRISON, K. 2008. First Annual Report EL43/2006 Gowrie Park Project for Period 8 March 2007 to 7 March 2008. Newcrest Mining Limited. Unpublished Company Report to Mineral Resources Tasmania.

KITTO, J.; TEDDER, I. J. 2008. Final Report EL43/2006 Gowrie Park Project for Period 8 March 2007 to 30<sup>th</sup> June 2008. Newcrest Mining Limited. Unpublished Company Report to Mineral Resources Tasmania.

McCLENAGHAN, M. P.; GREEN, D. C.; SEYMOUR, D. B.; BROWN, A. V.; VICARY, M. J. (compilers) 2008. Digital Geological Atlas 1:25,000 Scale Series. Sheet 4440. Gog. Mineral Resources Tasmania.

McCLENAGHAN, M. P.; GREEN, D. C.; VICARY, M. J. (compilers) 2008. Digital Geological Atlas 1:25,000 Scale Series. Sheet 4240. Cethana. Mineral Resources Tasmania.

McCLENAGHAN, M. P.; GREEN, D. C.; VICARY, M. J. (compilers) 2008. Digital Geological Atlas 1:25,000 Scale Series. Sheet 4241. Wilmot. Mineral Resources Tasmania.

McLEAN, G.; BAXTER, C. 2006. Firetower Project Annual Report for E26/2004 and E31/2004 for the Period 26 November 2005 to 30 October 2006. Greatland Pty Ltd. Unpublished Company Report to Mineral Resources Tasmania.

McLEAN, G. 2007. Firetower Project Annual Report for E26/2004 and E31/2004 for the Period 26 November 2006 to 25 November 2007. Greatland Pty Ltd. Unpublished Company Report to Mineral Resources Tasmania.

NOLDART, A. J. 1963. Notes on Barite Deposits, Lower Beulah Sheffield District. Unpublished Report to Department of Mines Tasmania UR1963\_047\_48.

NYE, P. B. 1941. Report on the Minnow Gold Deposits. Unpublished Report to Department of Mines Tasmania UR1941\_100\_102.

SEYMOUR, D. B.; GREEN, G. R.; CALVER, C. R. 2007. The Geology and Mineral Deposits of Tasmania: A Summary. Bulletin Geological Survey Tasmania 72.

VICARY, M. J. 2008. Revisions to Geological Maps in the Southern Part of the Dial Range/Fossey Mountain Trough, Northern Tasmania with Emphasis on Cambrian Geology. Record Geological Survey Tasmania 2008/01.