



EL 28029 (“Blueys Folley”)

Partial Relinquishment Report 2015

Author: Colin Skidmore
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Tenement Holders: DBL Blues Pty Ltd (100%)
Tenement: EL28029 “Blueys Folley”
Reporting Period: Partial Relinquishment 30 November 2014 - 29 November 2015
Distribution: Core Exploration Ltd (1)
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Map Sheet: Alice Springs 1:250,000 sheet (SF5314)
Fergusson Range 1:100 000 sheet (5850); Riddock 1:100,000 sheet (5851)
Target Commodity: Copper, lead, silver, REE
Keywords: Exploration review, Iron oxide copper-gold, REE

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1. Location & Access

EL 28029 “Blueys Folley” lies 110 km east-north-east of Alice Springs between the Amarata Range and Hale River. The eastern margin of the tenement is constrained by the Ruby Gap Nature Park. Travel time is just under 2 hours from the township (Figure 1). Access from Alice Springs is by way of Ross Highway for 70 km, then northeast towards Arltunga and then heading south east to east along the Ruby Gorge track. Access within the tenement is limited. The general area is hilly with only a few vehicle tracks available. The rivers are prone to flooding during heavy rainfalls over the summer. Accommodation can be found at Ambalindum Station (45 minute drive). The climate is typical of central Australia, hot summers and mild winters.

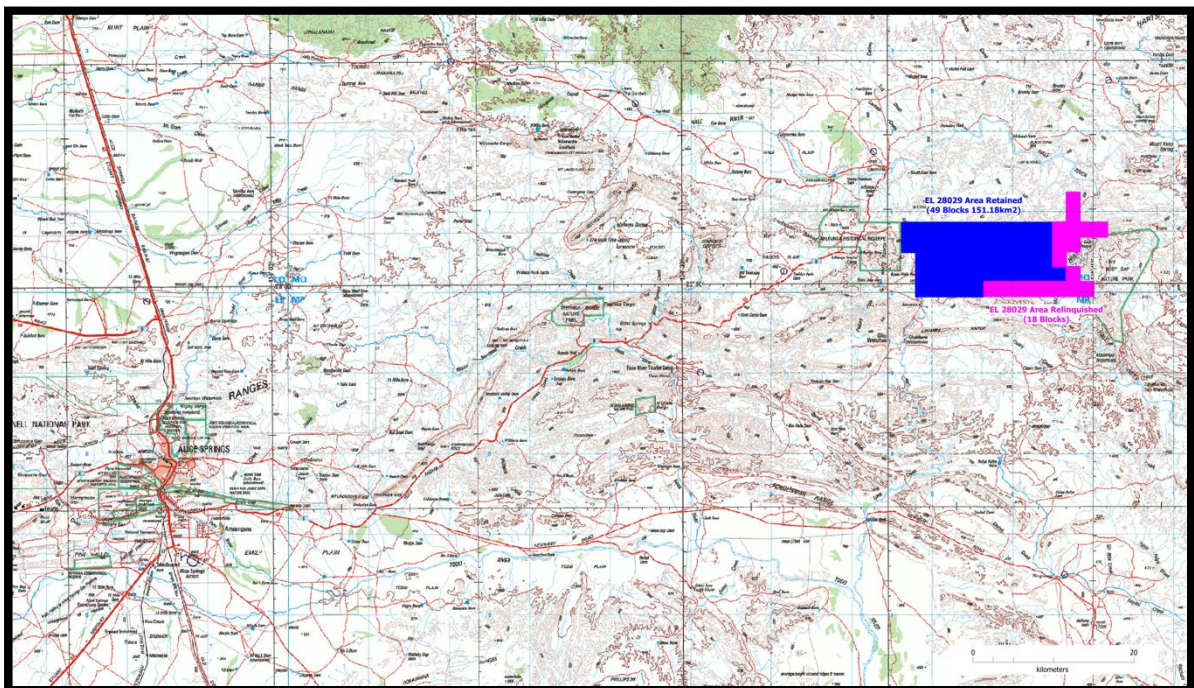


Figure 1: Location Map of EL 28029

2. Tenure

EL 28029, comprising initially of 67 Blocks, was granted on the 20 November 2011 to Gempart NT Pty Ltd for a 6 year period. The tenement lies on pastoral leases PPL1124 (Ambalindum Station) and PPL995 (Loves Creek/CLC).

In October 2012, Gempart entered into a joint venture with DBL Blues Pty Ltd (DBL) a 100% owned subsidiary of Core Exploration Ltd (CXO) where DBL had the right to earn at least 51% over 2 years. This joint venture agreement covers a number of leases in the Arltunga area, which included EL 28029. In 2014, CXO negotiated to purchase 100% of EL 28029 from Gempart NT Pty Ltd such that EL 28029 is now 100% owned by DBL Blues Pty Ltd.

On 11 June 2014, 18 Blocks of EL 28029 were cancelled due to limited expenditure during the first two years. As detailed below and illustrated in Figure 2, 18 Blocks were nominated for cancellation:

SF 53 2916: Y
SF 53 2988: D,H,J,K,N,O,S,Y
SF 53 2989: F
SF 53 3060: A,B,C,D,E
SF 53 3059: C,D,E

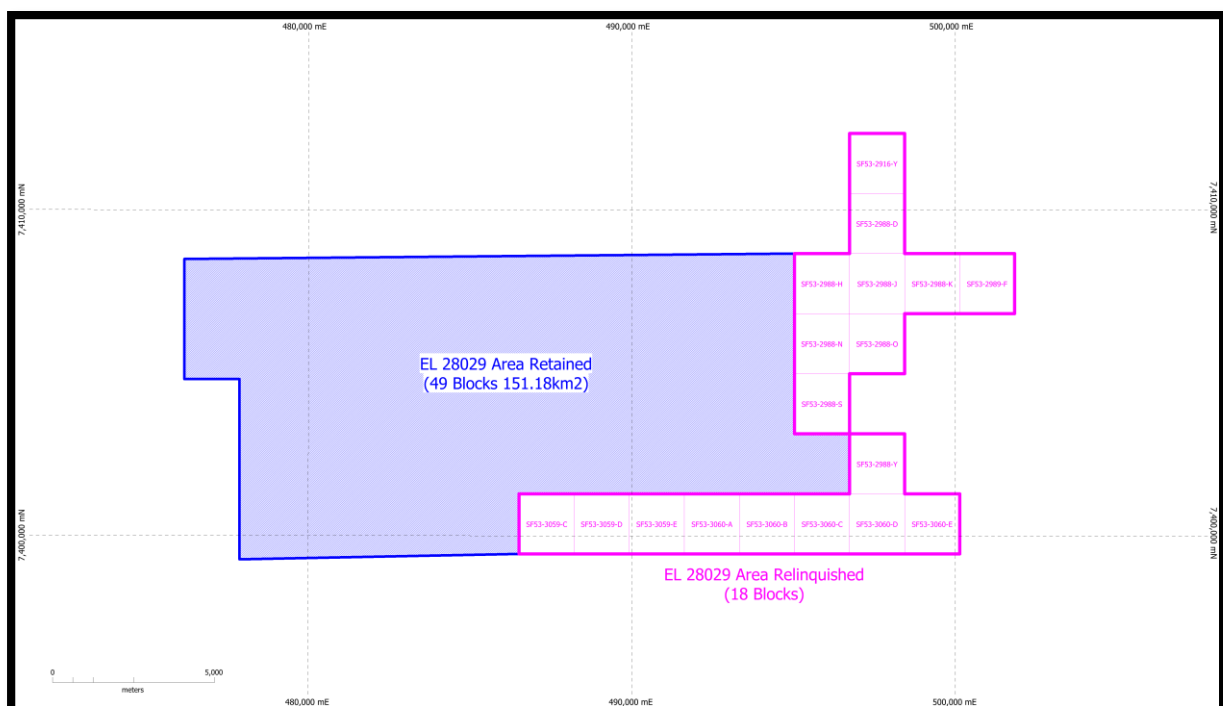


Figure 2: EL 28029 Area Retained and Blocks Relinquished in 2014

In November 2015, a further 23 blocks (72.46km²) were selected for relinquishment due to limited expenditure as detailed below and illustrated on Figure 3.

SF 53 2986: G, H, J, K, M, N, O, P, S, T, U

SF 53 2987: F, G, L

SF 53 2988: F, G, L, M, Q, R, V, W, X

The retained area of EL 28029 is now 25 Blocks (78.76km²)

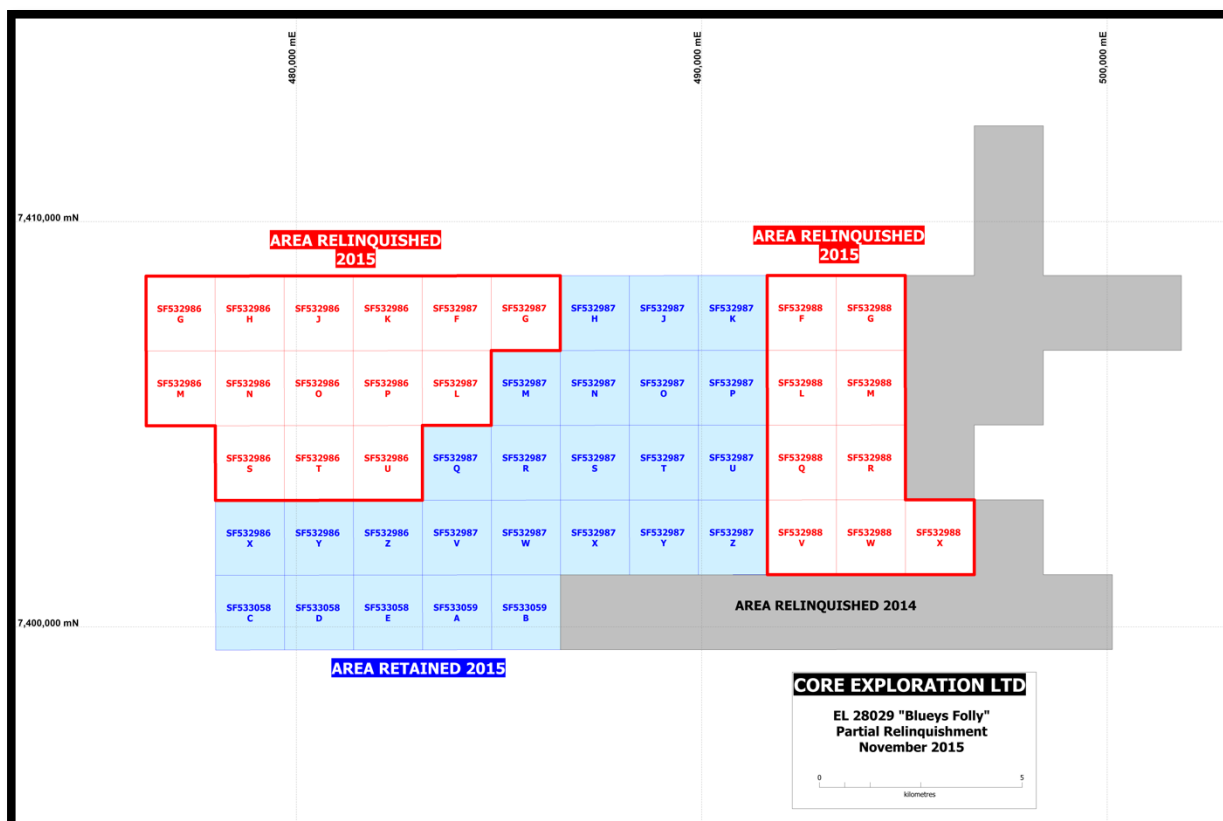


Figure 3: EL 28029 Area Retained and Blocks Relinquished in 2015

3. Geology and Mineralisation

EL 28029 is located in the Proterozoic Aileron province of the Central Arunta Region. The rocks here comprise variably metamorphosed sediments, volcanic rocks, calcsilicates, amphibolites and granite (Figure 4). The dominant structures appear to trend north-east and are associated with the Illogawa Schist zone. Some apparently reactivated later structures trend north-west.

Most of the interest in the immediate area has focused on the rare earth mineralisation (REE) at Blueys Folly within EL 28029. Here allanite is often associated with a rare earth bearing thorium. It can in a number of settings, local examples being pegmatite dykes

(plug-like to lenticular sub-vertical bodies and sheet-like apophysis that intrude the surrounding amphibolite facies metamorphic rocks and within amphibolite and marble (calcsilicate?) units adjacent to these pegmatites (Murrell, 1988). Murrell estimated that Blueys Folly contained several million tonnes of pegmatite grading about of 0.4% allanite. This is a sub-economic grade. The north-east strike extent of the Blueys Folly REE geology continues up EL 28029, where two anomalous areas are identified.

Further to the south west of EL 28029 is Blueys Cu-Ag prospect. Mineralisation at Blueys comprises secondary lead, copper and silver in association with pyrite, barite, quartz veining and replacement minerals. Rocks hosting mineralisation are dolomite and dolomitic siltstones belonging to the Bitter Springs Formation. Along the eastern side of EL 28029 in the area relinquished, lower sequences of Amadeus Basin sediments including Bitter Springs Formation and Heavitree Quartzite are mapped associated with retrogressive shear zones.

To the west of EL 28029 some work has gone on exploring for quartz vein hosted gold similar to the Arltunga workings. Some of this has been drilled (e.g. Duffer workings), but in most cases the veins are thin (<1m) with poor continuity.

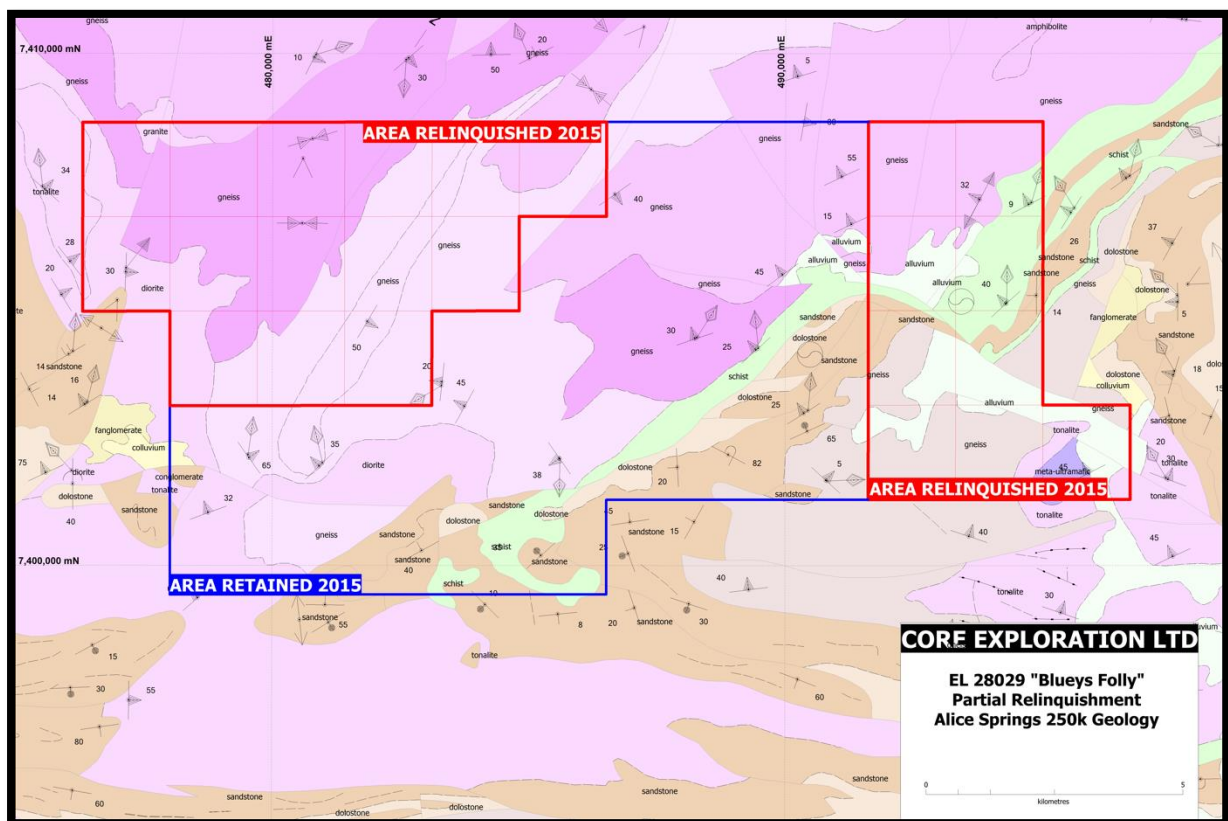


Figure 4 Extract from Alice Springs 1:250,000 Geology

4. Previous Exploration

Bluey's Allanite Prospect (also known as Bluey's Folly) is located in the middle of EL 28029. An area about 2.5 x 3.0 km was identified where pegmatite and amphibolite units have unusually high abundances of allanite. In CR1988-0452, a non-JORC resource estimate of 200,000 tonnes at >1 % allanite, or several million tonnes at >0.4 % allanite is reported. Allanite is an important source of REE at Arafura Resources' Nolans Bore Project.

The archive information about Bluey's Allanite Prospect is very patchy. There was clearly a lot of work preceding the first report about the prospect (CR1988-0452). There are reams of very detailed information, including two comprehensive CSIRO reports about the mineralogy (S-series of rock chips; includes probe work), but basic information, such as sample locations and useful maps, is limited. A number of samples are described in these reports as carbonatites. The only data for the area in STRIKE are the stream sediment samples, although widespread and detailed rock chip sampling and Airtrack (34 holes REAT-1 to -34), RC (26 holes RERC-1 to -26), RAB and diamond (1 hole REDDH-1) drilling were completed.

Mr Pu Yuan completed his PhD thesis in 2002 at James Cook University; A study of allanite mineralogy and mineralisation in Bluey's Folly, Arltunga area, Central Australia (supervisor Professor PJ Stevenson). The thesis is listed on the JCU library website. None of Pu's work is in the historic report archive except for three 1:500-scale geology maps covering Bluey's Folly (CR1990-0005; Section 35). The maps show the detailed geology, but also the location of rock chip samples (D-series) and RAB drill holes (RAB08-24). Unfortunately the map has a local grid.

Currently little is known about the previous exploration at the "Valley View" Prospect.

Exploration activities by the current tenement holder has been restricted to desktop studies including reviews of past exploration, reprocessing of available geophysical datasets and the collection of a high resolution Heli-magnetic and radiometric survey over the Blueys Folley REE prospect in May 2012 by Daishsat Pty Ltd (100m flight lines orientated 045/225°), however only a small portion of the western area relinquished is covered by this survey.

In the area being relinquished, very little recent exploration work appears to have been undertaken. Historically (1980's to early 2000's) 151 stream sediment samples, 4 soil samples, 17 rock chips and 6 (circa 1988) drill holes (WR03, 05, 12, 14, 15 and 16) were collected but from available open file data however only low levels of anomalism was recorded.

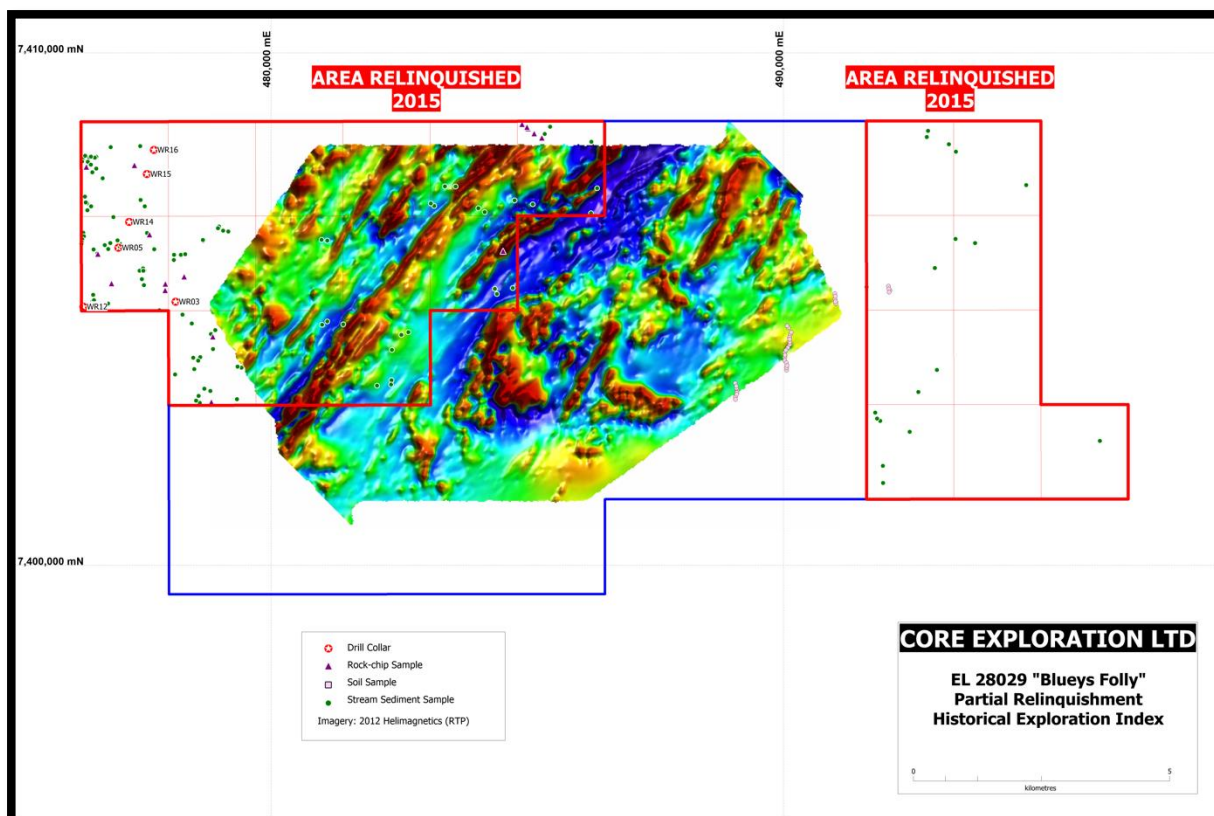


Figure 5: Summary of historical exploration work

5. Expenditure

The covenant for the period was set at \$60,000 however due to limited resources and priorities on other tenure this expenditure commitment was not met with only \$6,603 allocated to EL 28029 in its fifth year of tenure. Subsequently an additional 23 Blocks have been relinquished.

6. Conclusion

The relinquished areas of EL 28029 were selected as areas outside of the Blueys Folly REE anomaly and outside areas of Heavitree Quartzite and Bitter Springs Formations that the company considers might be prospective for Inkheart-style base metal mineralization.

Proterozoic Aileron Province Basement dominates the geology of the relinquished area. The relinquished area is partially coincident with precipitous topographic relief that restricts access for exploration activities. Core Exploration has not undertaken any work on the areas selected for relinquishment.

7. References

Murrell B, 1988. NT Exploration Licence 4865. Report on exploration activities 29 October 1987 to 28 October 1988. Northern Territory Geological Survey, Open File Company Report CR1988-0452.

Murrell B. 1989. Report on Exploration Activities EL4850, 29 October 1986 to 28 October 1989 (Final Report)

Hussey, KJ. 2003. Rare earth element mineralisation in the eastern Arunta Region. Northern Territory Geological Survey Record 2003-004

Skidmore C.P. 2014. EL 28029 Partial Relinquishment Report 14th August 2014. Core Exploration Ltd *Unpublished*

Yuan P. 1992. A study of allanite mineralogy and mineralisation in Blueys Folly, Arltunga Area, NT. PhD thesis at James Cook University, North Queensland.

Zhao JX & Cooper JA. 1992. The Atnarpa Igneous Complex, Southeast Arunta Inlier, central Australia. Implications for subduction at an early-mid Proterozoic Continental Margin. *Precambrian Research* v 56, pp 227-253