

**FINAL REPORT**

**EXPLORATION LICENCE 29617**

**MacArthur River**

**FERGUSSON RIVER SD5212 1:2500 000**

**CHINA AUSTRAL LAND RESOURCES PTY LTD**

**ACN 154 511 298**

**September. 2015**

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## 1.0 SUMMARY

Exploration Licence 29617 is situated in the western parts of the Pine Creek Inlier (Litchfield Province). The objective of the exploration on EL29617 was to explore for *Au-Ag-Cu-Pb-Zn*. During the period 22nd April 2013 to 24th September 2015, a route geological survey was completed and soil and rock chips sampled by portable Niton XRF analyser. The results were negative and CALR's has decided to surrender exploration licence 29305.

## 2. LOCATION & ACCESS

EL 29617 is located about 200km SSW of Darwin in very rugged and dissected country immediately north of the Wingate Mountains on FERGUSON\_RIVER (SD52-12) 1:2500 000 scale map sheets.

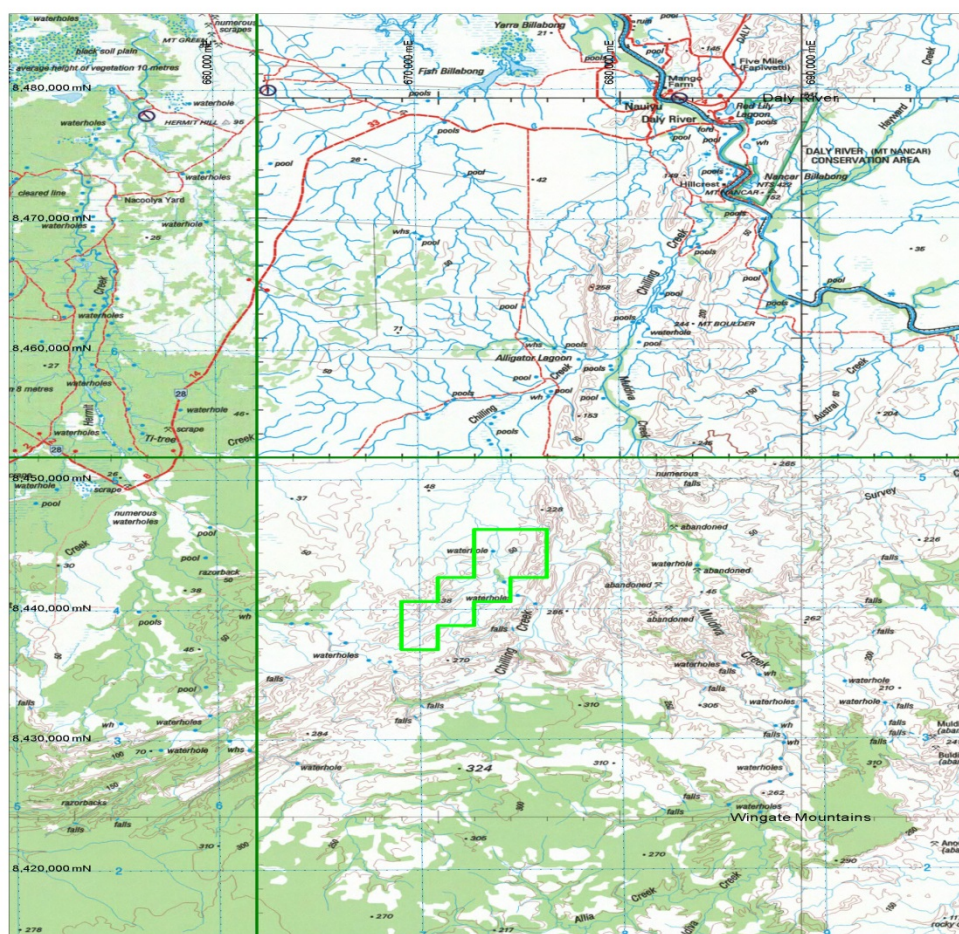


Fig.1 location map of EL29617

### 3. TENEMENT STATUS

EL29617 consisted of 9 sub-blocks, and was granted to China Australia Land Resources Pty Ltd on 22nd April 2013 for a period of six years. Licence details for EL29617 are outlined in Table 1 below.

*Table 1: Licence Details for EL29617*

Name	Grant Date	Surrender Date	Current Blocks	Area (sq km)	Holder
EL29617	22/04/2013	24/09/2015	9	29.98	China Australia Land Resources Pty Ltd

### 4. REGIONAL GEOLOGY

The reporting area is dominated by 2 main physiographic units, these being the Daly River Basin in the east and the northern uplands in the west.

The Daly River Basin Unit consists of thick sequences of dolomites and limestone, with a flat black soil surface expression. The Northern Uplands consist of folded and rugged Proterozoic sediments and meta-sediments. The Daly River is the main drainage system in the area.

The reporting area is made up of two significant structural units, these being the Daly Basin and the Litchfield Province. The Litchfield Province is an area of metamorphic and intrusive igneous rock, which is bounded to the east by the Giants Reef Fault.

The Daly Basin is a sequence of Cambrian limestones and dolomites overlying the Antrim Plateau Volcanic. Some granite crops out within this area, and the same rock type exists to the north east of the area. In the southern part of the ELs Tertiary sands and clay stones of the Cretaceous Mullaman Beds overly unknown basement but probably Chilling Sandstone. In the northern part, meta sediments of the Chilling

Sandstone are intruded by the TiTree Granophyre.

**Table 2: The Stratigraphic Column in the Vicinity of Daly Group**

Time	Unit	Rock Suit
Cambrian	Daly River Group	Limestone; siltstone; sandstone; arkose; quartz arenite
Regional Unoconformity		
Middle Proterozoic	Tolmer Group  Depot Creek Sandstone	Dolomite; calcareous Sandstone; halite Sandstone; shallow marine Sandstone
Regional Unoconformity		
Early Proterozoic	Fish Billabong Adamellite Mt Litchfield Granite	Biotite adamellite, aplite Granite
	Wangi Basics	Basalt; gabbro; dolerite; ultramafic rocks
	Finiss River Group  Burrell Creek Formation  Warrs Volcanic Member  Mulluk Mulluk Volcanics	Sediments and felsic volcanic rocks Phyllite; lithic quartz arenite; conglomerate within acid volcanic clasts  Submarine acid volcanics; dacitic lavas; tuffaceous siltstone and volcaniclastic lithic arenite  Spherulitic rhyolite
Regional Unoconformity		

Time	Unit	Rock Suit
	Hermit Creek Metamorphics	High grade metamorphic rocks , amphibolite to granulite facies, retrograded; metabasite; paragneiss; granitoid

## 5.0 PREVIOUS EXPLORATION

### 5.1 Publication of preliminary geological and geophysical studies

CR19920539; CR19930550; CR19930498; CR19940593; CR19940590;  
CR19950101; CR19950188; CR19960222; CR19960194; CR19900664;  
CR19910024; CR19890069; CR19870182; CR19860276; CR19890603;  
CR19880361; CR19890604; CR19860120; CR19820017; CR19690041;  
CR19800165; CR19800249; CR19810273; CR19790169; CR19810310;  
CR19780150; CR19780149; CR19830150; CR19800083; CR19810280;  
CR19780172; CR19780064; CR19780173; CR19810071; CR19810215;  
CR20101032; CR20110476; CR20100816; CR20090961; CR20100945;  
CR20090957

### 5.2 Summary of preliminary geological and geophysical studies

- (1) Planet Gold during 1969-1970 for uranium, gold and base metals
- (2) Carpentaria Exploration Company during 1985-1991 for gold and base metals
- (3) Tipperary Mining with Mobil Energy Minerals during 1992-1995 for Uranium and base metals.
- (4) Corporate Developments in the mid to late 1990's for gold and base metals
- (5) Outback Metals in the late 2000 to early 2010 for gold and base metals

There are several mineral occurrences with the ELs as listed in the NTGS MODAT database.

The mineral commodities considered were gold, base metals and uranium.

## **6.0 EXPLORATION COMPLETED DURING 2013-2015**

During the reporting period exploration consisted mainly of desktop research and reconnaissance surveys. 6 Rock chip and 874 soil samples were analysed using a portable Niton XRF analyzer. No worthwhile follow-up targets were identified.

## **7 EXPENDITURE**

Exploration expenditure on the tenement was \$13, 330.

## **8 Conclusions AND Recommendations**

After a review of all indoor research and field work, CALR has decided to surrender Exploration Licence 29617.

## **9 References**

Placer AUSTEX PTY. Limited, 1978. EL 1236, Daly River, Northern Territory, Final report. Unpub., company report to Northern Territory Mines Department.

RODWELL, G.N., 1979. Airborne Sepectrometer survey, Chilling Creek-Twin Peaks Area, Northern Territory. Mobil Energy Minerals Australia Inc. UNpub. Rept.

WALPOLE, B.P., CROHN, P.W., DUNN, P.R., and RANDAL, M.A., 1968. Geology of the Katherine-Darwin Region, Northern Territory. Bur. Miner. Resour, Aust. Bull.82

BMR MAPS Cape Scott, Pine Creek, Port Keats and Fergusson River 1:250,000 geological sheets; Katherine-Darwin Area Victoria River Region, and the Pine Creek Geosyncline 1:500,000 scale geological sheets.

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