FINAL REPORT

EXPLORATION LICENCE 27040

Wingate Mountains

Map Sheet: 1:250,000 Pine Creek Metallogenic (SD52-08)

CHINA AUSTRALIA LAND RESOURCES PTY LTD

ACN 154 511 298

02 June 2016 – 01 June 2017
Cu Ni Pb Zn Ag

Aug. 2017
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1.0 SUMMARY

The objective of the exploration on EL27040 was to explore unconformity-hosted U mineralisation, gold and base metals. During 26th Sep 2016 to Sep 2017 no much exploration activity was undertake within EL27040, except 2km route survey. But CALR’s geologist spent much time on indoor research, while the result is not good enough for next investment. So we decide to give up the exploration licence.

2. LOCATION & ACCESS

Exploration Licence 27040 is situated on the BAUHINIA_DOWNS (SE53-3) 1:250,000 geological mapsheet in the Northern Territory. EL 27040 is situated approximately 240km SSE of Darwin, NT, and 14km west of Daly River townsite. A location map is provided as Figure 1 (The green area of the map). Access to the Licence is possible from Dorat Rd (old Stuart Highway, out of Adelaide River) then via the Daly River Road, then west and southwest along various tracks that truncate the Licence. Access is limited outside of the dry season. Most of the Licence is low-lying with little relief, but 5 of the easternmost blocks have a NNE-trending series of ridges (parallel to Chilling Creek

The climate is hot, monsoonal with most of the year’s rainfall occurring during the months of December to April. Vegetation is characterized by open eucalypt woodland and savannah grasses, with stands of red river gum and pandanus palm growing near perennial water or sandy creeks.
3. TENEMENT STATUS

EL27040 was granted to CALR and became effective for a six year period 10th September 2012. Although the exploration licence is still in the period of validity, but most of those exploration licence own by CALR are primary licence, every year, CALR has to cost much money to rent and preserve those licence. So, through past two year’s exploration indoor research and review of history date, CALR decide to abandon EL27040.

4. REGINAL GEOLOGY

EL 27040 is situated within on the western side of the Pine Creek Orogen, in the area known as Litchfield Province. The regional geology is outlined in several texts, most
notably including Ahmad et al., 1993; Ahmad, 1998; Berkman, 1980; Mendum 1972, Fahey et al., 1986, Pietsch 1989 and Carson et. al., 2006. The Giants Reef Fault transects the eastern edge of EL 27040, which is interpreted as the boundary between the ‘central’ Pine Creek Orogen to the east and the Litchfield Province to the west (Berkman 1980).

The Litchfield Province was defined as the western part of the Pine Creek Geosyncline, with large parts of the Litchfield Province interpreted as ‘granitoid, garnetiferous, gneissic, with metasediments varying in metamorphic grade from greenschist to upper amphibolite / granulite grade (Berkman 1980). The lack of outcrop in much of the area has limited exploration on the western portions. Recent work by the NTGS has reviewed the Litchfield Province, with geochronology tentatively correlating the Litchfield Province with the Halls Creek Orogen to the southwest, but notes that the field evidence indicates a complex tectonic relationship (Carson et al., 2006; Glass, 2007).

The mapped lithology within EL25195 is largely obscured by Cainozoic eluvial soils. Floodplain alluvium masks the geology of the northern blocks (Figure 2). The central portion has small outcrops of granites from the Allia Suite (Litchfield Granite, Fish River Billabong Adamellite) which is an S-type granite (Wyborn 2002). Further south, metabasite rocks of the Hermit Creek Metamorphics are mapped in areas adjacent to Murra-Kamangee Granodiorite. The eastern 5 blocks that are truncated by the Giants Reef Fault are mapped as Proterozoic Chilling Sandstone overlying Proterozoic Burrell Creek Formation sediments. Much of the tenement is underlain by the Allia Suite Granites (Litchfield and Murra-Kumangee Granodiorite) with areas of Hermit Creek Metamorphics sandwiched between the granites.
5.0 PREVIOUS EXPLORATION

5.1 Preliminary geological and geophysical studies

CR20101000; CR20080722; CR20091022; CR20100999; CR20100931; CR20090776;
CR20070643; CR20080931; CR19810313; CR19780170; CR19800228; CR19790192;
CR19780033; CR19800217; CR19790167; CR19810247; CR19810275; CR19810309;
CR19780149; CR19800249; CR19880412; CR19890826; CR20040328; CR20040298;
CR19940573; CR19990344; CR19900507; CR19910396; CR19930460; CR19920331;
CR19910363; CR19950210; CR19930483; CR19920558; CR19920539; CR19910438

5.2 Previous exploration summary

Tipperary Land Corporation was prospecting AP 1873 primarily for bauxite, with the possibility of phosphate in the SE corner (which is within EL 27040). Most of AP 1873 is outside of EL 27040 and no work was carried out within EL 27040.

Several companies carried out exploration for uranium in the 1970’s. Suttons Motors in JV with Mobil Australia Ltd explored EL 1599 (plus several other contiguous tenements in the Litchfield area) for uranium from 1978. An airborne radiometric survey identified several U anomalies, and comments were made on the anomalies during ground follow-up, such as:

a) granite outcrop effect – small granite outcrops projecting through radiometrically opaque cover

b) ‘warm’ spots within larger granite masses; usually more biotitic granite phases adjacent to the porphyritic granite type

c) Clay pan and flood plain anomalies from daughter uranium products absorbed in clays
d) Residual and transported laterite with uranium daughter products coprecipitated with the Fe in laterite

e) Lower Proterozoic sediments that have a higher radioactive background than other lithologies

f) Anomalies associated with groundwater springs

The results from the previous uranium exploration are still being evaluated, with bottom-of-hole geology compilation to map areas covered by Cenozoic cover. Several companies have explored for diamonds. Stockdale Prospecting carried out exploration for diamonds on several contiguous EL’s (including EL’s 6648, 6651 and 6652 which covered much of 27040). Stream sediment, soil sampling and heavy mineral sampling was carried out. Stockdale identified a number of magnetic dipolar anomalies from a reinterpretation of the regional magnetic data but none of the anomalies are within 27040.

6.0 EXPLORATION COMPLETED DURING 2016-2017

During the reporting period only 3km route geological survey and about 30 route geological survey was completed. But no special geological phenomenon was found for the next work.

7 EXPENDITURE

Exploration expenditure on the tenement from 10th September 2016 to 09th September 2017 totally was $15,250.00.
8 Conclusions AND Recommendations

Via outdoor route survey and indoor research, CALR decide to abandon this exploration licence.

9 References


Glass, L., 2007. Geochemistry of mafic rocks in the Litchfield Province, western Pine Creek Orogen: Evidence for a Paleoproterozoic arc-related setting and links to the Halls Creek Orogen.
