

# Success Dome Application



- Application made for 70-block, ~220km<sup>2</sup> exploration licence covering Success Dome in active Ashburton region of Western Australia
- Prospective for gold and base metals
- Located southwest of Castle's Beasley Creek gold project and Tom Price and west of Paraburdoo
- Data compilation underway and first-pass reconnaissance exploration programme planned upon licence grant
- Acquisition of Ashburton Gold Project by Kalamazoo Resources Limited (ASX: KZR) and several recent applications in region for licences adjacent to Success Dome by third parties highlight that a reappraisal of the region's prospectivity is underway

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*Castle Managing Director, Stephen Stone commented "We are very pleased to have been first-in-line to apply for the Success Dome licence in a part of the Ashburton region that is receiving renewed attention by several companies".*

***"Magnetic and gravity data have confirmed the presence of major thrust faults and sub-parallel shear zones which previous explorers have outlined as prospective for gold and base metals mineralisation."***

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Castle Minerals Limited (ASX: CDT) ("Castle" or the "Company") advises that it has applied for a ~220km<sup>2</sup> exploration licence (E08/3257) prospective for gold and base metals centred on Success Dome in the Ashburton Basin (Fig 1).

The 70-block licence lies midway between Northern Star's (ASX: NST) Paulsen's gold deposit and Kalamazoo Resources' (ASX: KZR) Ashburton deposit, within the same regional-scale structural corridor.

More locally, Success Dome lies immediately adjacent to the southern margin of the Hamersley Basin and 40km southwest of Castle's Beasley Creek gold project.

Major thrust faults and sub-parallel shear zones highlighted in the regional magnetic and gravity data, combined with additional detailed geophysics data from previous explorers, brought this available area to Castle's attention.

Dominant lithologies in the area applied for comprise Duck Creek Dolomite in the north and Ashburton Group sediments to the south (Fig 2).

Two particular areas of interest have been identified. Target 1 is at the intersection of the regionally dominant Cheela Thrust Fault and a subsidiary shear zone. Target 2 is an area of deformation and offset of Ashburton Formation sedimentary rocks.

Success Dome is logistically well located southwest of the iron ore town of Paraburdoo and west of Tom Price in a region with excellent road, rail and air infrastructure plus mining support services.

The recent acquisition of the 1.6Moz<sup>1</sup> Ashburton Gold Deposit by Kalamazoo Resources Limited (ASX: KZR) and several other licences proximal to Success Dome by other explorers highlight that a reappraisal of the region's prospectivity is underway.

**ASX & Media  
Release**

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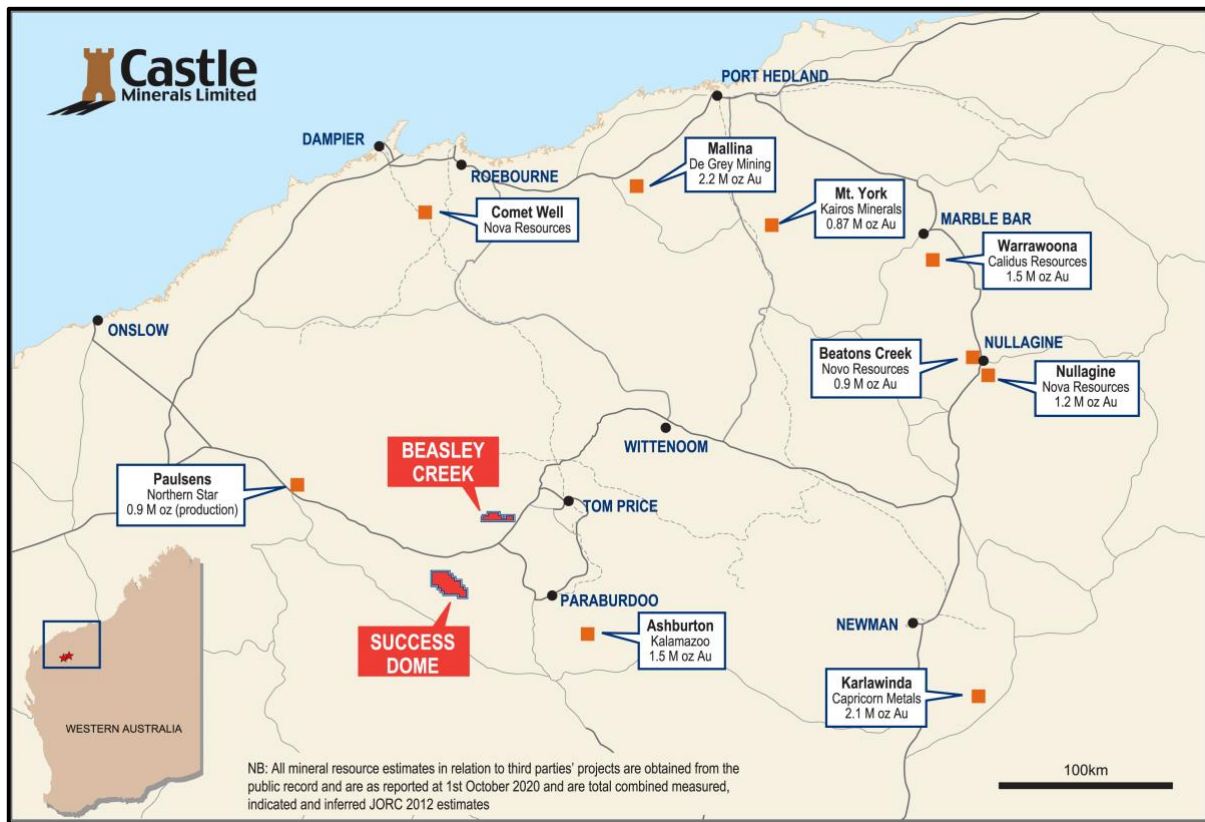
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**Capital Structure:**

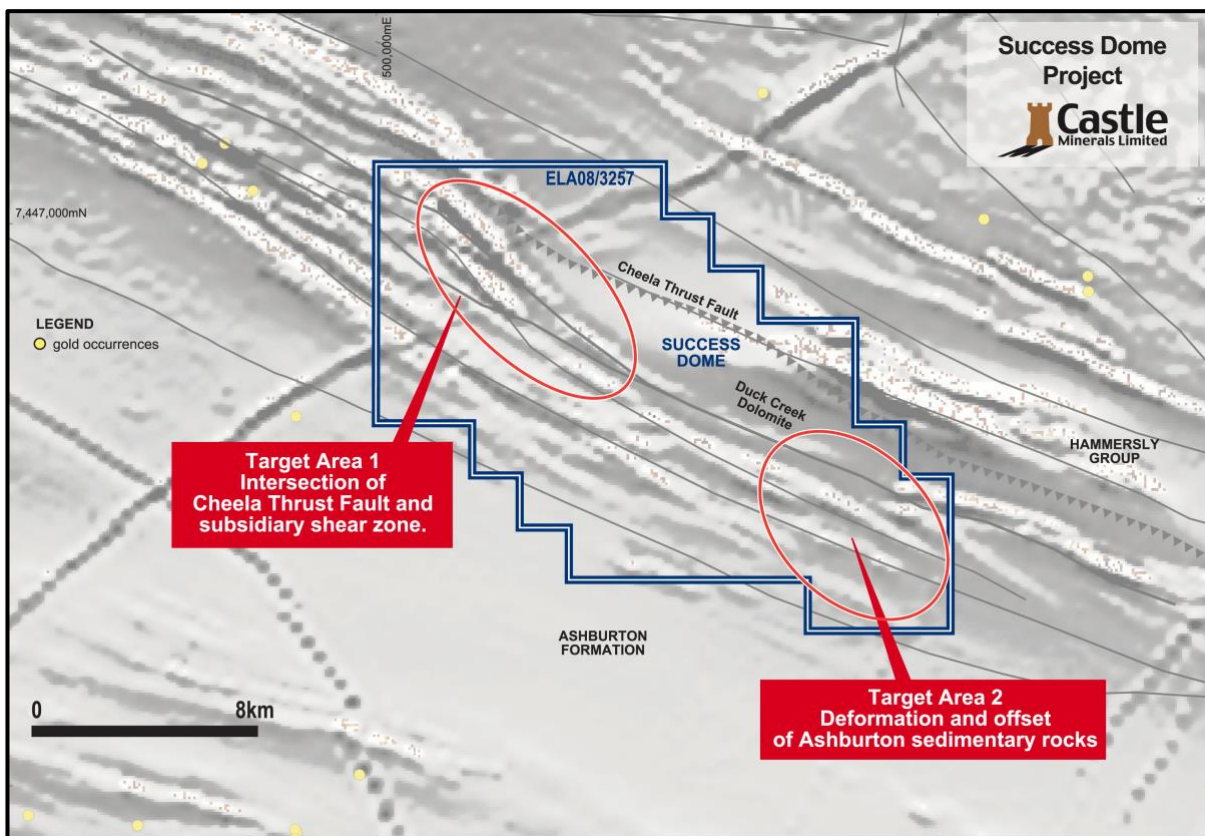
Ordinary Shares: 486.5M  
Unlisted Options: 15.5M

A desktop review of historical exploration has commenced and publicly available geophysical data will be reprocessed. A first-pass reconnaissance sampling programme is planned upon licence grant.

**Fig 1: Pilbara regional plan showing Castle’s Beasley Creek and Success Dome licences**



**Fig 2: Success Dome licence structural setting**



Authorised for release to ASX by the Board of Castle Minerals Limited:

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**About Castle Minerals Limited**

Castle Minerals is an Australian Stock Exchange (ASX: CDT) listed and Perth, Western Australia headquartered company with interests in several projects in Western Australia and Ghana that are prospective for gold and other minerals.

At the **Wanganui** project (E51/1703, 18.4km<sup>2</sup>), 33km south-west of the active Meekatharra mining centre and 15km south-west of the operating Bluebird gold mine, the opportunity is to quickly test for down-plunge and along strike extensions to the existing Main Lode North and South deposits, as well as for other similar targets. In 2002, when the gold price was much lower than present, these were partially open-pit mined to recover shallow oxide ore to a depth of approximately 30m. Very little work has been focused on testing for the possibility of deeper mineralisation below the supergene oxidised zone.

The Main Lode mineralisation, which can be intermittently traced for at least 1km, is one of at least four sub-parallel, northeast striking and structurally analogous mineralised zones. The others are the East Lode, the Far East Lode and the Queenslander reef line where anomalous mineralisation has been confirmed over 1km, 400m and 200m respectively.

The **Polelle** project (E51/1843, 144.5km<sup>2</sup>), 25km south of Meekatharra and 7km southeast of the operating Bluebird Mine, hosts a mainly obscured and minimally explored greenstone belt comprising a combination of prospective lithological units and major structural features. This includes the Albury Heath shear which hosts the Albury Heath deposit (Inferred Resource of 528,000t at 2.09g/t Au for 35,479oz Au) immediately adjacent to the east boundary of the licence. Aeromagnetics have indicated that the southwest trending Albury Heath shear is traceable onto the Polelle project area for some 7.5km.

Reinforcing the excellent location of Polelle, is that it is 12km west of the Gabanintha Mine, 11km east of the Nannine group of gold mines and is easily accessed via sealed and good quality unsealed highways.

Whilst historical exploration has generated sporadic shallow RAB drill hole, rock chip and geochemical gold anomalies, the sampling techniques employed are considered unreliable given that 70% of the project area is covered by a veneer of transported cover.

The opportunity therefore is for Castle to use a modern understanding of regional and local tectonics, structure and the regolith along with Castle commissioned high resolution aeromagnetics and appropriately designed sampling techniques to more effectively test the underlying prospective Archaean greenstone lithologies for gold.

The **Beasley Creek** project lies on the northern flanks of the Rocklea Dome in the southern Pilbara. The strategy is to define structural gold targets within the various Archean sequences. These lie immediately above and below the 16km east-west striking conglomerate horizons which had been the primary focus of exploration by Castle. The sheared granite - greenstone contact and the "Paulsen Gold Mine" type setting within the gabbro/dolerite units, that intrude the Hardy Sandstone in the northern part of the project area, are of particular interest.

In **West Africa**, Castle has a large contiguous tenure position in Ghana's Upper West region. Ghana has a long history of gold exploration and mining and host several world-class gold mining operations owned by Tier 1 mining companies. Castle's Ghana licence interests encompass large tracts of highly prospective Birimian geological terrane, the host to many of West Africa's multi-million-ounce gold mines.

Castle also retains a 4% net smelter precious metal royalty over the adjacent Julie West licence that was sold to Azumah Resources Limited and which comprises a key component of Azumah's Wa Gold Project.

### **Cautionary Statement**

All of Castle's projects in Australia are considered to be of grass roots or of relatively early stage exploration status. There has been insufficient exploration to define a Mineral Resource. No Competent Person has done sufficient work in accordance with JORC Code 2012 to conclusively determine or to estimate in what quantities gold or other minerals are present. It is possible that following further evaluation and/or exploration work that the confidence in the information used to identify areas of interest may be reduced when reported under JORC Code 2012.

### **Forward Looking Statement**

Statements regarding Castle's plans, forecasts and projections with respect to its mineral properties and programmes are forward-looking statements. There can be no assurance that Castle's plans for development of its mineral properties will proceed as currently expected. There can be no assurance that Castle will be able to confirm the presence of Mineral Resources or Ore Reserves, that any mineralisation will prove to be economic or that a mine will be successfully developed on any of Castle's mineral properties. The performance of Castle may be influenced by a number of factors which are outside the control of the Company, its Directors, staff or contractors.

### **Competent Persons Statement**

The scientific and technical information in this Report that relates to the geology of the deposits and exploration results is based on information compiled by Mr Stephen Stone, who is Managing Director of Castle Minerals Limited. Mr Stone is a Member of the Australian Institute of Mining and Metallurgy and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Stone is the Qualified Person overseeing Castle's exploration projects and has reviewed and approved the disclosure of all scientific or technical information contained in this announcement that relates to the geology of the deposits and exploration results.