



# ASX ANNOUNCEMENT

25 May 2015

Electronic lodgement

## COMPANY SNAPSHOT

### LODESTAR MINERALS LIMITED

ABN: 32 127 026 528

### CONTACT DETAILS

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### CAPITAL STRUCTURE

#### Shares on Issue:

324,546,386 (LSR)

#### Options on Issue:

20,750,000 (unlisted)  
36,077,591 (listed - 31 Mar 2016)

ASX: LSR

### PROJECTS

*Peak Hill – Doolgunna:*

*Neds Creek*

*Camel Hills*

*Imbin*

Base metals, gold

## CAMEL HILLS GOLD TARGET

- **Camel Hills tenements granted. Lodestar reconnaissance fieldwork indicates potential for orogenic gold mineralisation within the 100km long Errabiddy Shear Zone along the northern Yilgarn craton margin**
- **A large gold anomaly within the Errabiddy Shear Zone has been identified with historic soil sampling returning values of up to 907ppb gold<sup>1</sup>.**
- **Lodestar believes the anomaly is associated with a litho-structural contact between a 12 km long magnetic zone and non-magnetic schists.**
- **Scoping programme of shallow drilling and trenching to test the potential for steeply-plunging, high grade shoots within the contact zone will commence on receipt of heritage and statutory approvals which have been submitted.**

Lodestar Minerals Limited (ASX: LSR) advises that two of the five Camel Hills tenements applied for (E52/2099 and E52/2100) have been granted with the remaining tenements pending. A maiden drill and trenching programme at the granted tenements will commence as soon as heritage and statutory approvals are received.

The Camel Hills project comprises five tenements and a total area of 924 square kilometres over the Errabiddy Shear Zone in the Gascoyne Province of Western Australia (Figure 1). Significant gold geochemical anomalies have been identified at both regional and local scales in historic data within the Errabiddy Shear Zone.





During field reconnaissance undertaken by Lodestar it was observed that the gold anomalies at the site of historic drilling (Main Grid, Figure 2) are associated with a contact between magnetic and non-magnetic schists. All rocks in the Main Grid area are intensely sheared and tightly folded. Characteristic steeply plunging, rodded quartz veins and lineations occur within the shear.

The magnetic zone extends for a distance of 12 kilometres and is developed on the contact of re-worked Archaean gneiss and metamorphosed Proterozoic sediments. Lodestar believes this contact was a major structure throughout the development of the Errabiddy Shear Zone and magnetite may represent hydrothermal alteration developed in the hangingwall of a regional thrust.

Lodestar plans to carry out an intensive scoping investigation, utilising shallow trenching and drilling, to evaluate the potential for high grade gold lodes within a 1200 metre corridor along the contact zone. The prospective contact extends north and beyond previous drilling that reported anomalous gold results (<sup>1</sup>see Desert Mines and Metals (ASX: DSN) ASX announcement dated 22 April 2013). These results may represent a low-grade margin to a higher grade, structurally-controlled lode system.

#### **BILL CLAYTON**

Managing Director

#### **Competent Person Statement**

*The information in this report that relates to Exploration Results is based on information compiled by Bill Clayton, Managing Director, who is a Member of the Australasian Institute of Geoscientists and has sufficient experience of relevance to the styles of mineralisation and the types of deposits under consideration, and to the activities undertaken, to qualify as a Competent Person as defined in the 2012 Edition of the Joint Ore Reserves Committee (JORC) Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr Clayton is a full-time employee of the company. Mr Clayton consents to the inclusion in this report of the matters based on the information in the form and context in which it appears.*

#### **About Camel Hills**

*The Camel Hills project is located 170 kilometres northwest of Meekatharra and 60 kilometres south and east of Gascoyne Resource's Glenburgh gold deposits (1Moz Au). The Errabiddy Shear Zone is 5 to 20 kilometres wide and is linked at depth to the Cardilya Fault, a major tectonic boundary between the Archaean Narryer Terrane and the accreted Palaeoproterozoic Glenburgh Terrane to the north. Re-worked craton margins are a favourable location for the formation of world-class orebodies, including orogenic gold deposits (e.g. Tropicana). The Errabiddy Shear Zone was reactivated during the collision of the Yilgarn and Pilbara cratons and is intensely deformed. Recent mineral systems prospectivity mapping by the GSWA has identified the Errabiddy Shear Zone as a favourable site for large-scale gold mineralisation, this view is supported by historic surface sampling that has identified strong gold anomalies associated with outcropping gneiss in the Main Grid area. Limited drilling completed by previous explorers is not regarded as a conclusive test of the gold potential at Camel Hills.*

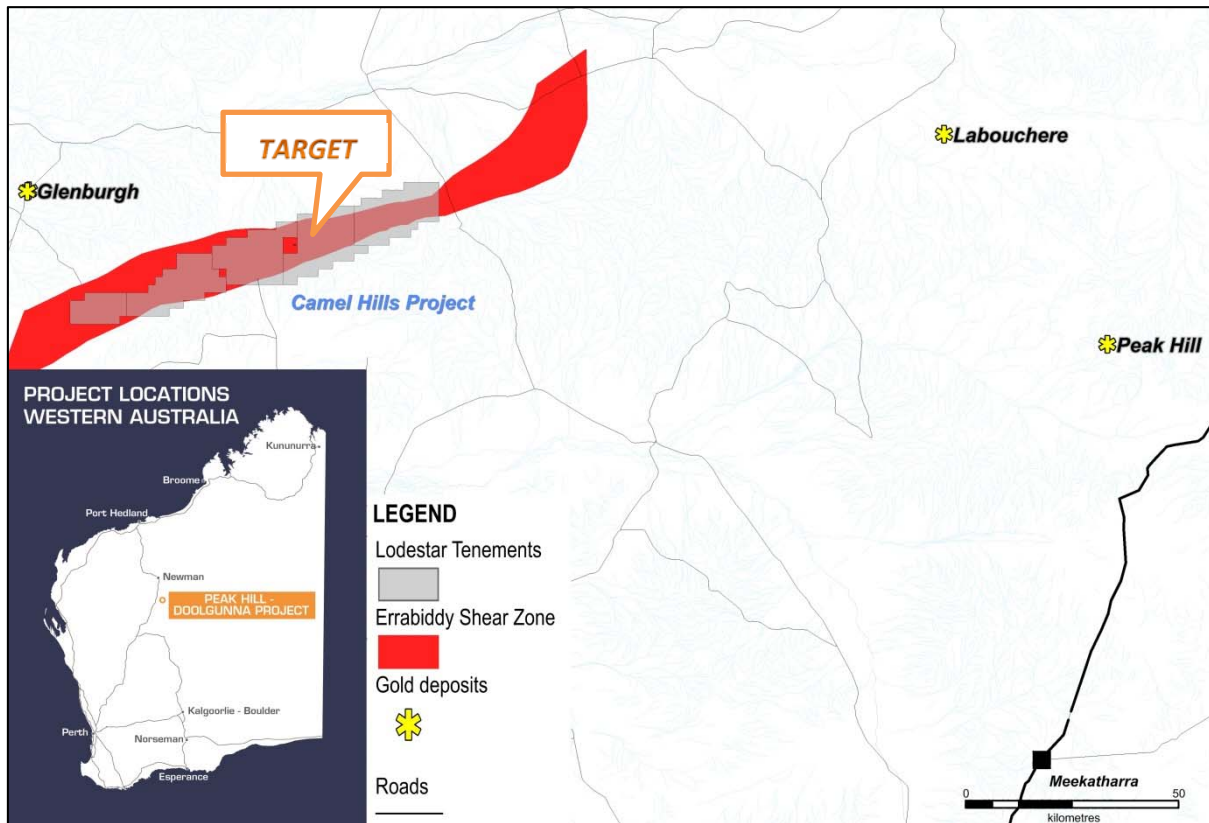


Figure 1 Location Plan - Camel Hills Project

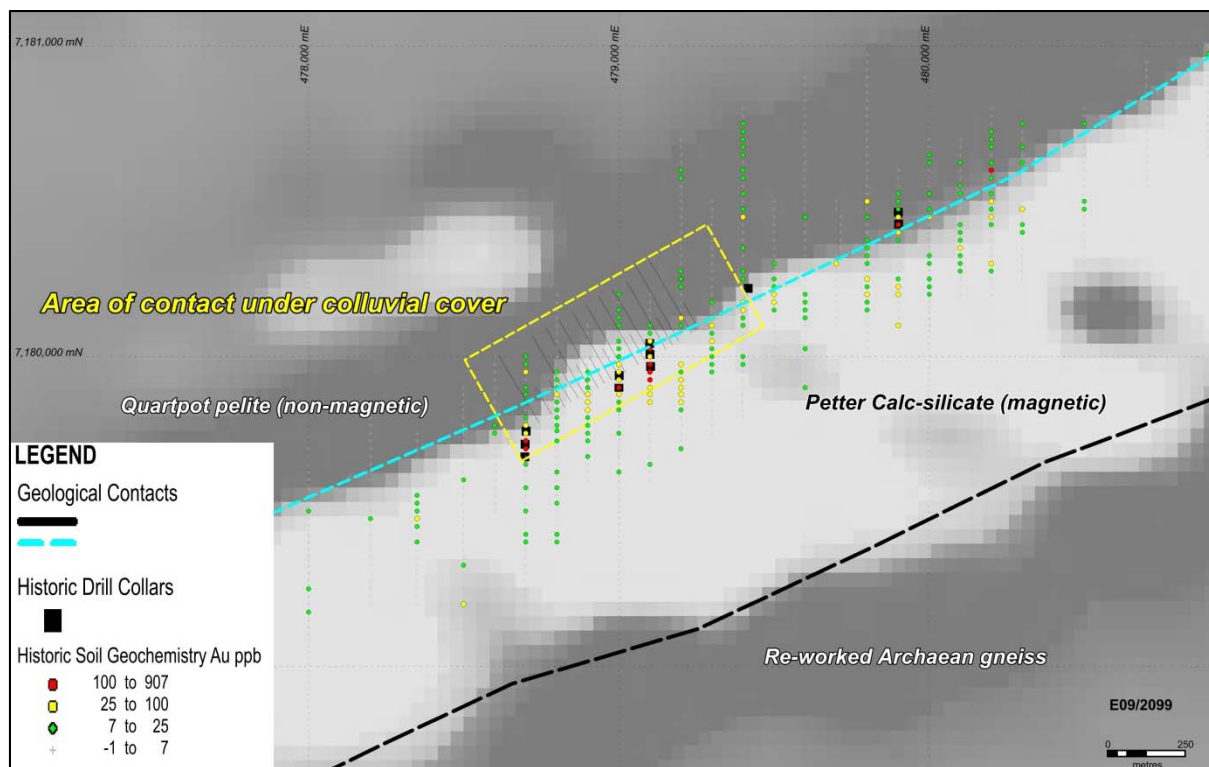


Figure 2 Target located on sheared geological/magnetic contact (aeromagnetic image 1VD) MGA Zone 50.



## About Lodestar Minerals

*Lodestar Minerals Limited is a Perth-based active explorer with projects in the Peak Hill district and bordering the northern Yilgarn margin. The Ned's Creek project forms the core of Lodestar's project portfolio and represents a strategic landholding of 830 square kilometres over the north eastern margin of the Yerrida Basin and the Jenkin Fault, a fundamentally significant regional fault system that is adjacent to the DeGrussa Cu-Au deposit.*

*The Ned's Creek tenements are located 170 kilometres north east of Meekatharra, 7 kilometres east of the Thaduna-Green Dragon copper mines being evaluated by Ventnor Resources and Sandfire Resources and 5 kilometres east of Sandfire Resources and Sipa Resources' Enigma copper discovery. The Yerrida Basin contains thick volcano-sedimentary sequences that are bounded by major structures, the Jenkin and McDonald Well Faults and there is good potential for large-scale base metal and gold mineralisation adjacent to these structures.*

*In 2013 Lodestar discovered significant gold mineralisation at the Contessa prospect. Contessa lies within a 5 kilometre long gold anomaly overlying Archaean greenstone, on the southern margin of the Marymia inlier. Lodestar believes that this structural position marks a major crustal break, a highly favourable environment for magma-driven metal accumulation during cyclic reactivation of a former continental margin represented by the northern boundary of the Yilgarn Craton.*

*The region has potential to host a number of styles of base metal and gold deposits and Lodestar has embarked on an aggressive exploration program to assess the potential of Ned's Creek and the tectonic margin of the northern Yilgarn Craton.*

*Lodestar is targeting palaeo-arc and back arc settings at Camel Hills and Imbin where historic exploration has identified gold and copper mineralisation, respectively. The Camel Hills and Imbin projects are currently progressing to grant of the tenement applications.*