



# Gold & Cobalt Explorer

RIU Explorers Conference

22 February 2017

# Company Disclaimer & Statements

## DISCLAIMER

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## EXPLORATION RESULTS

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Information in this report which relates to Exploration Results is based on information compiled by Andrew Viner, a Director of Alloy Resources Limited and a Member of the Australasian Institute of Mining and Metallurgy.

Mr Viner has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which they are 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 Viner consents to the inclusion in the report of the matters based on this information in the form and context in which it appears. Mr Viner is a shareholder and option holder of Alloy Resources Limited.

The Company confirms that it is not aware of any new information or data that materially affects the information in the relevant ASX releases and the form and context of the announcement has not materially changed.

Where the Company refers to the Mineral Resources in this report (referencing the releases made to the ASX), it confirms that it is not aware of any new information or data that materially affects the information included in that announcement and all material assumptions and technical parameters underpinning the resource estimate with that announcement continue to apply and have not materially changed.

The Company confirms that the form and context in which the Competent Persons findings are presented have not been materially modified from the original market announcements.

## MINERAL RESOURCES

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The resources in this release are based on work carried out by Dr. S. Carras FAusIMM of Carras Mining Pty Ltd.

Dr. Carras has 30 years of 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 "Australian Code of Reporting of Exploration Results, Mineral Resources and Ore Reserves" and consents to the inclusion in this report of the information in the form and context in which it appears.

## ALLOY RESOURCES LIMITED

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# An Active Gold & Cobalt Explorer

- Alloy Resources is a Mineral Explorer with projects across Australia.
- Our flagship project is the Horse Well Gold Joint Venture with Doray Minerals in W.A.
- Alloy is a 40% contributing partner in this Joint Venture located only 50 kilometres from Northern Star Limited's 220,000 ounce/per annum Jundee Gold Mine.
- The Company has recently commenced exploring the 100% owned Ophara Cobalt-Gold Project in the Broken Hill region of NSW.
- The Broken Hill area is emerging as a hot new area for Cobalt in Australia and Alloy has a unique Cobalt-Gold prospect with excellent potential.
- The Company is also active in Project Generation and has pegged new Gold projects in the Telfer, Yamarna and Kalgoorlie areas.

# Company Overview

## Board of Directors

### Mr Andy Viner

Executive Chairman – Exploration Geologist

Matsa Resources / Jackson Gold / Gindalbie Metals / RSG



### Mr Kevin Hart

Non-Executive Director & Company Secretary

Gold Road Resources / Dacian Gold / Encounter Resources



### Mr Allan Kelly

Non-Executive Director – Geologist, Investor

Recent ex-MD of Doray Minerals



## Capital Structure

SHARES ON ISSUE

967 m

OPTIONS (1.0/1.5/1.6c UNLISTED)

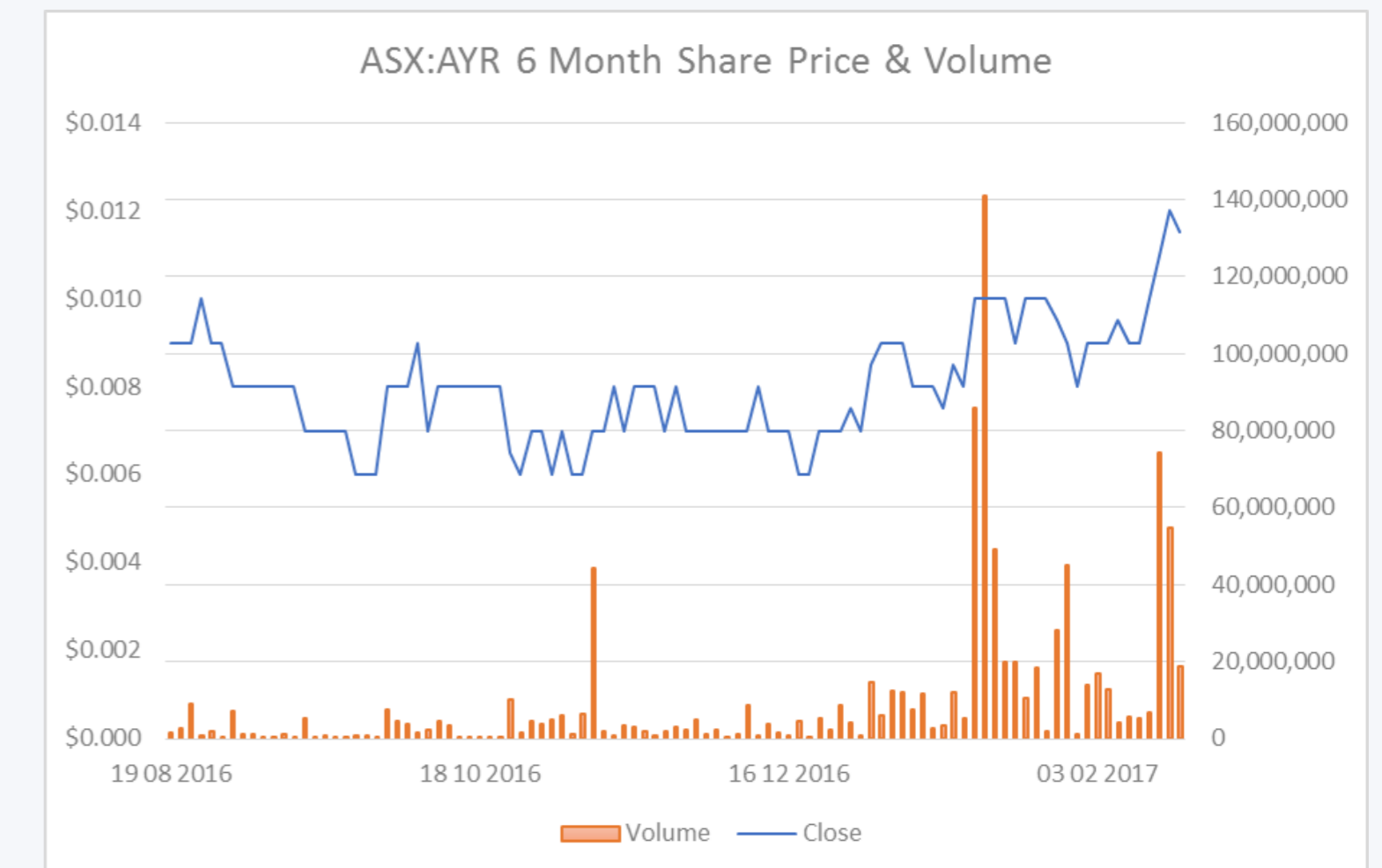
29 m

MARKET CAP (@ 1.1c)

\$10.63 m

CASH (DEC 31)

\$1.5 m



## Shareholders

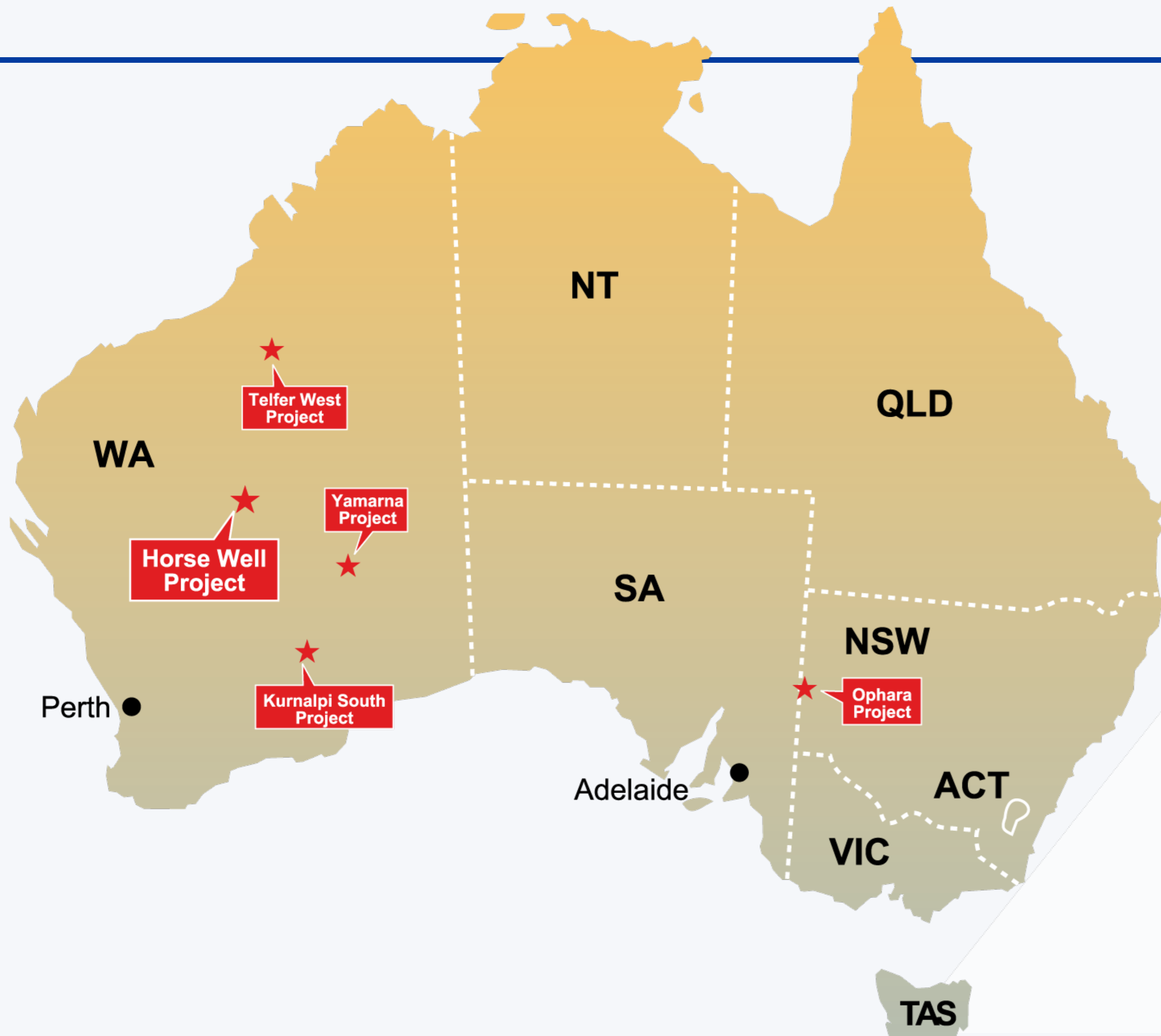
TOP 40

44%

DIRECTORS

5%

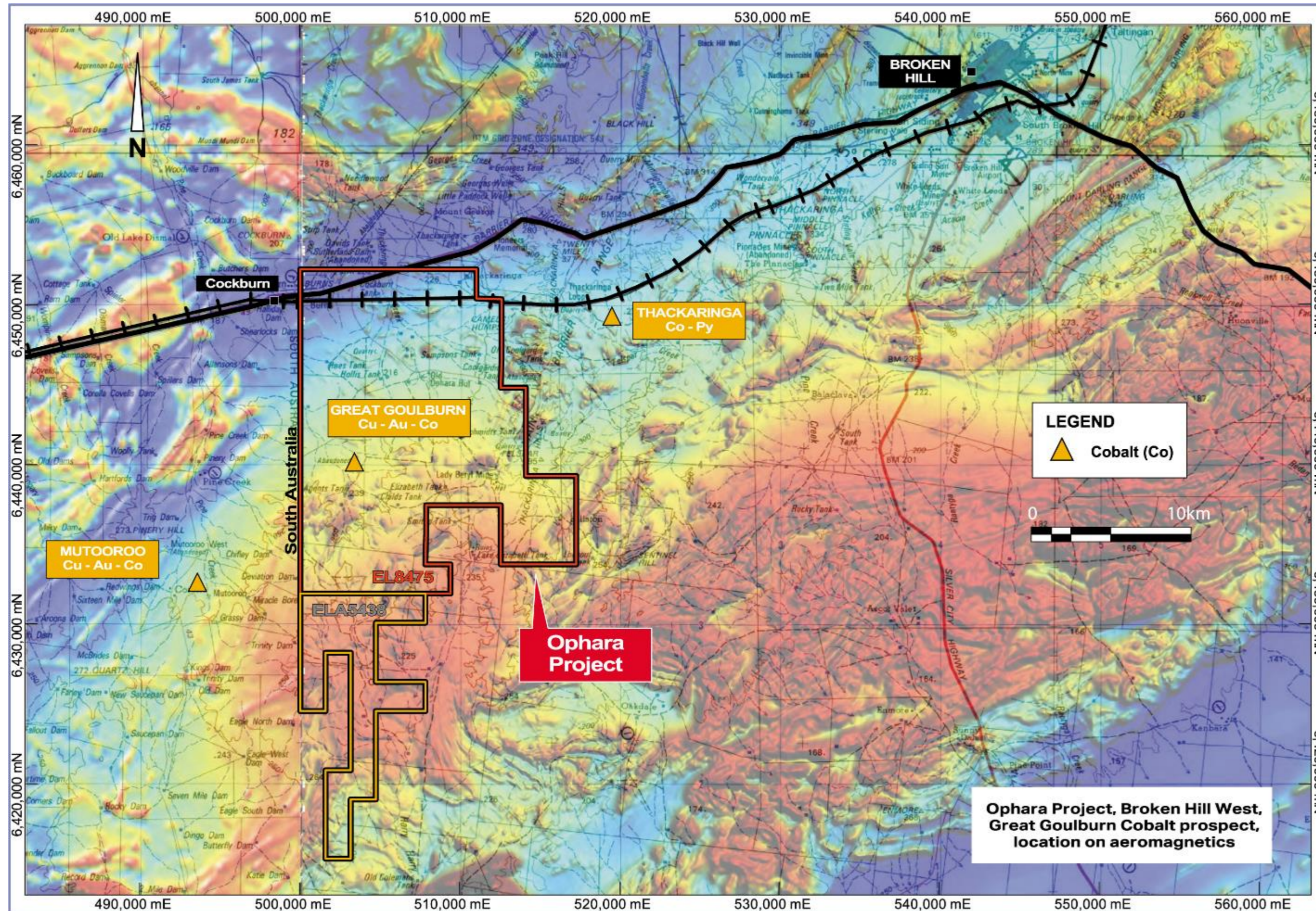
# Project Locations



## Our Strategy

- Low-cost by pegging or Option Agreements
- Prospective projects in high demand commodity
- Close to major mines

# Broken Hill / Cobalt Centre of Australia?



## The Ophara Cobalt-Gold Project

- 50 km west of Broken Hill on the South Australian border
- 314 square kilometre area 100% owned
- Great Goulburn Cobalt-Gold-Copper prospect identified

## Mineralisation style similar to the large Cobalt deposits in the area

- Thackaringa Cobalt project (Cobalt Blue Holdings)  
10 kilometres to the northeast – contains 27,500 tonnes of Cobalt with Pyrite
- Mutooroo deposit (Havilah Resources)  
10 km southwest – contains 17,500 tonnes of Cobalt with Copper and Gold.

(See COB Replacement Prospectus 4 January 2017 – Mineral Resources Table)

(See Havilah Resources Limited 2016 Annual Report – Mineral Resources Table)

## Major Infrastructure Advantages

- Rail, Road, Services and Skilled labour in the area

# The Ophara Cobalt Project

- Area sand covered with minor outcrop

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- **Great Goulburn Co-Au-Cu prospect**  
found in 1870's on rare outcropping hills

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- Modern rock chip sampling up to  
**0.9% Cobalt and 2.3 g/t Gold**

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- **Only 6 historical drill holes**  
4 which intersected mineralisation

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- Results of **8 to 20 metres @ ~ 0.15% Co** and  
**0.3-0.4 g/t Au** at depths less than 80 metres  
(Refer to ASX release: 31/10/2016)

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- **Co-incident Magnetic-electromagnetic-soil anomaly**  
over 1.5 kilometre strike

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- Previous explorers did not value the Cobalt whilst at low prices



Looking East at the two Gossan outcrop hills

## Our Aim

- To define a large Cobalt Resource  
of 20,000 to 40,000 tonnes

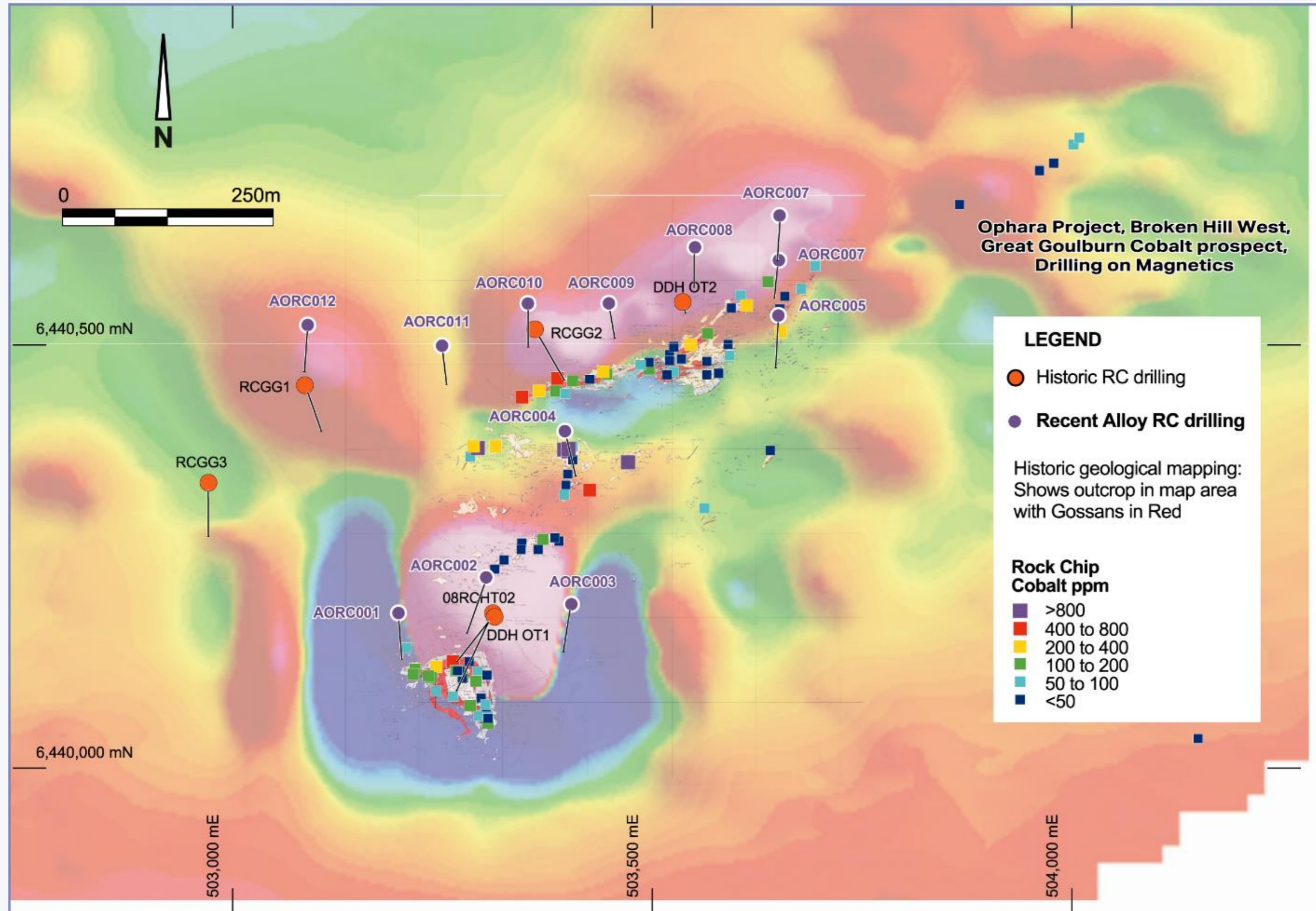
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- Look for high-value  
Cobalt-Copper-Gold mineralisation  
similar to Mutooroo

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- Rapidly define targets using geophysics  
and RAB drilling

# Ophara / Great Goulburn Cobalt Prospect

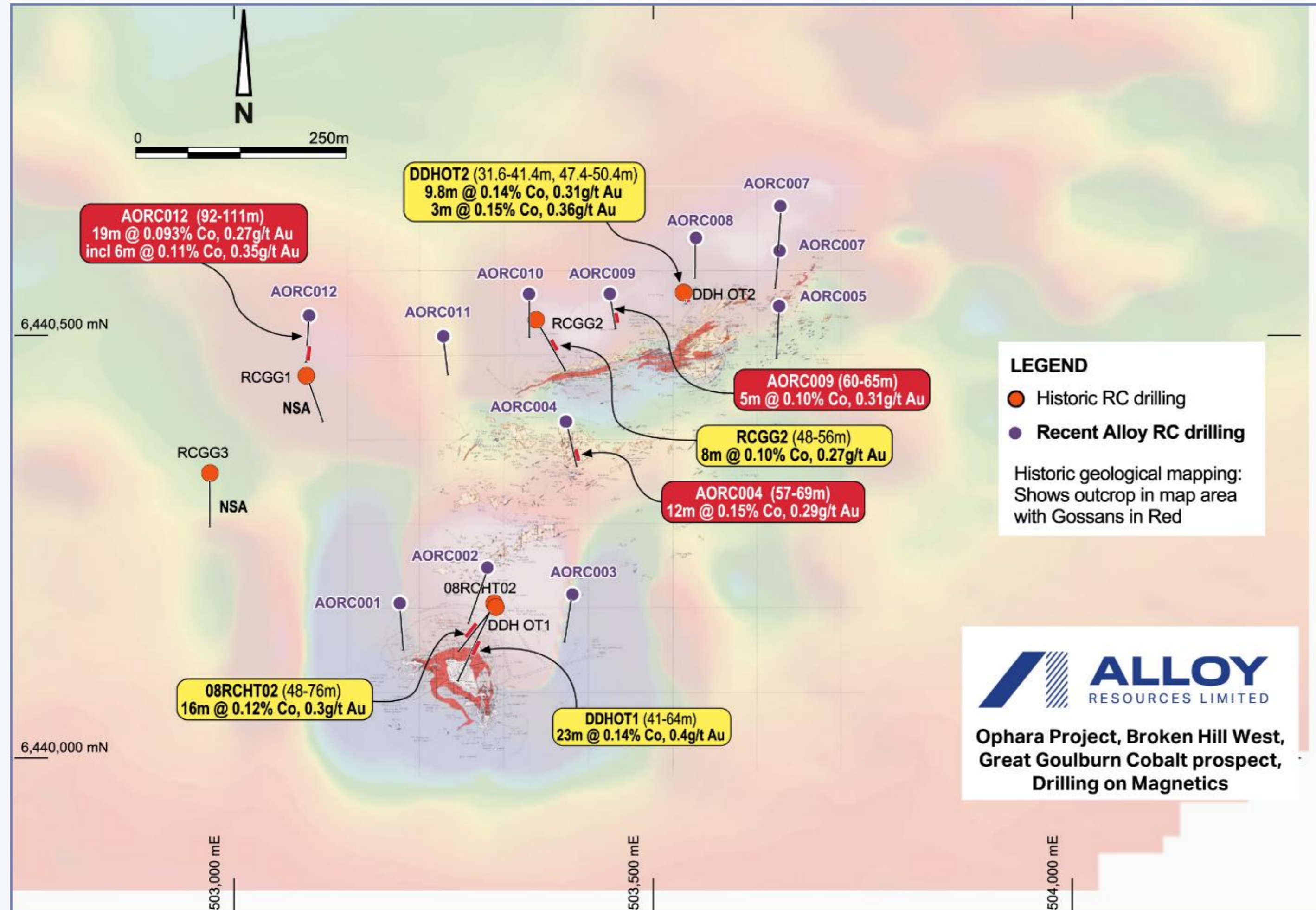


## Cobalt-Gold Mineralisation

- Clear relationship to Magnetic Anomaly which outcrops as a gossanous Quartz-Magnetite unit



# Ophara / Great Goulburn Cobalt Prospect

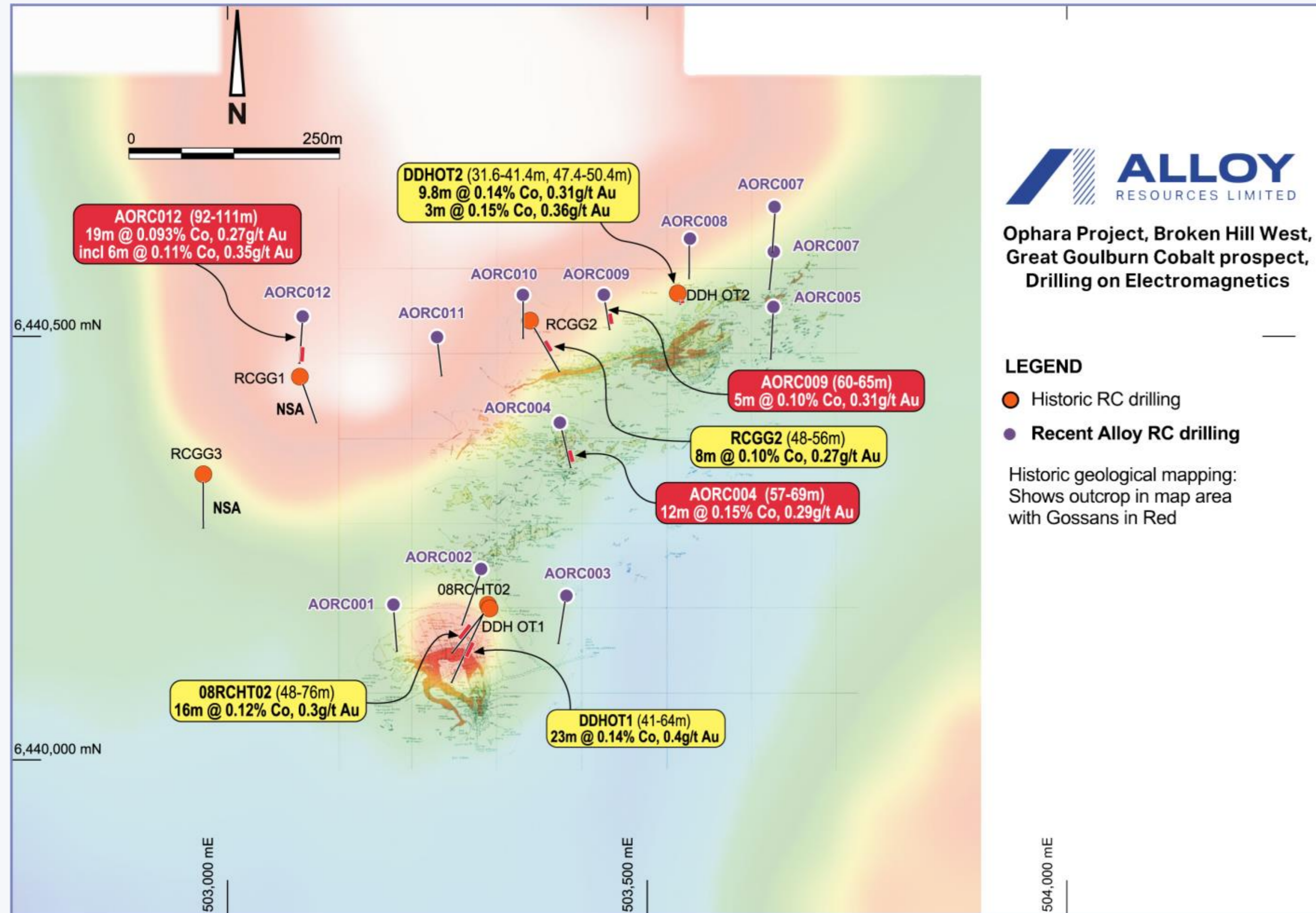


## Recent RC Drilling on Ground Magnetics

- Results received from 3 of 12 holes to date
- New mineralised zones discovered
- System is open

(Refer to ASX release: 22/02/2017)

# Ophara / Great Goulburn Cobalt Prospect

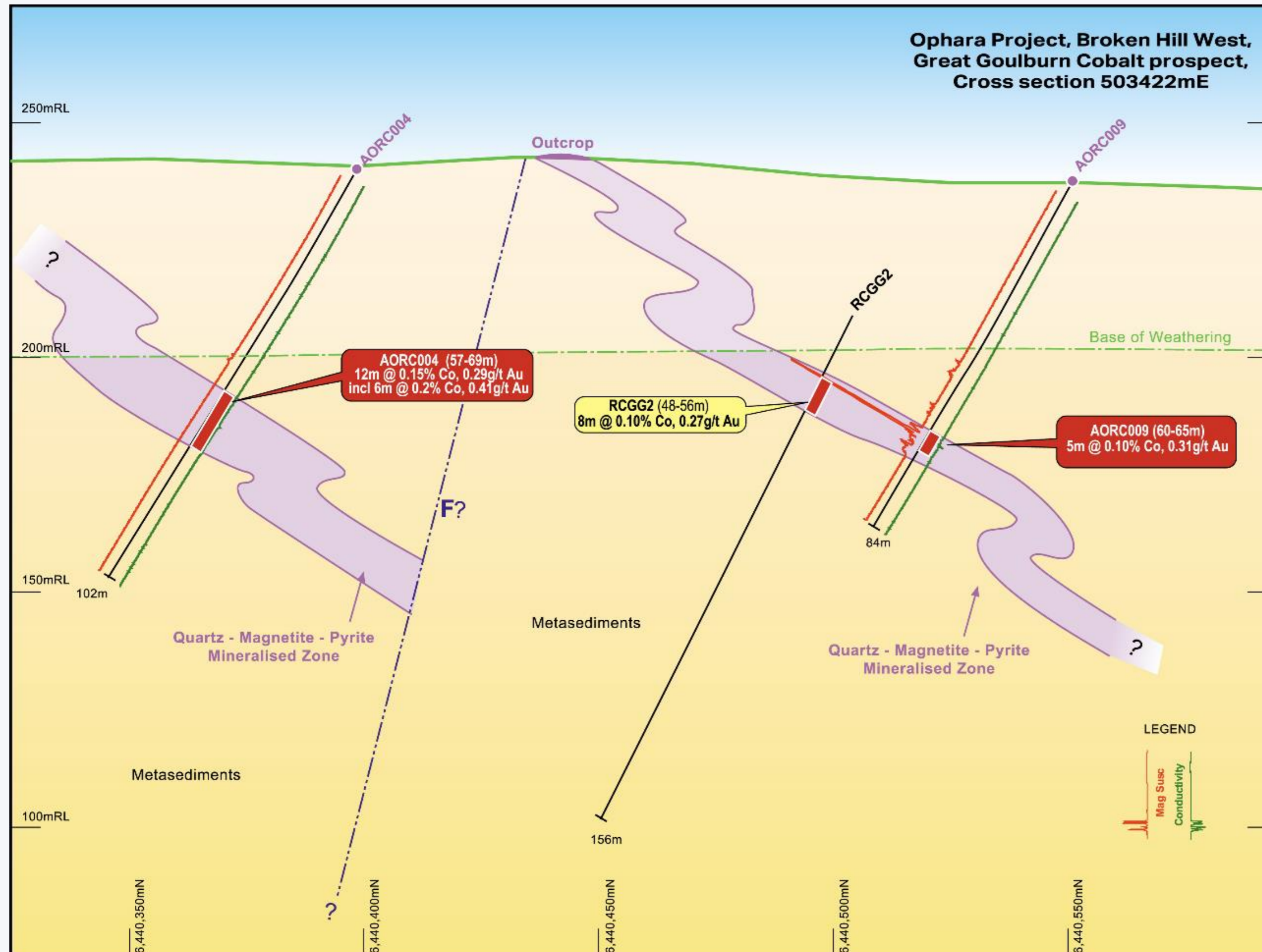


## Recent RC Drilling on Ground Electromagnetics

- Strong Correlation to Mineralisation

(Refer to ASX release: 22/02/2017)

# Ophara / Great Goulburn Cobalt Prospect

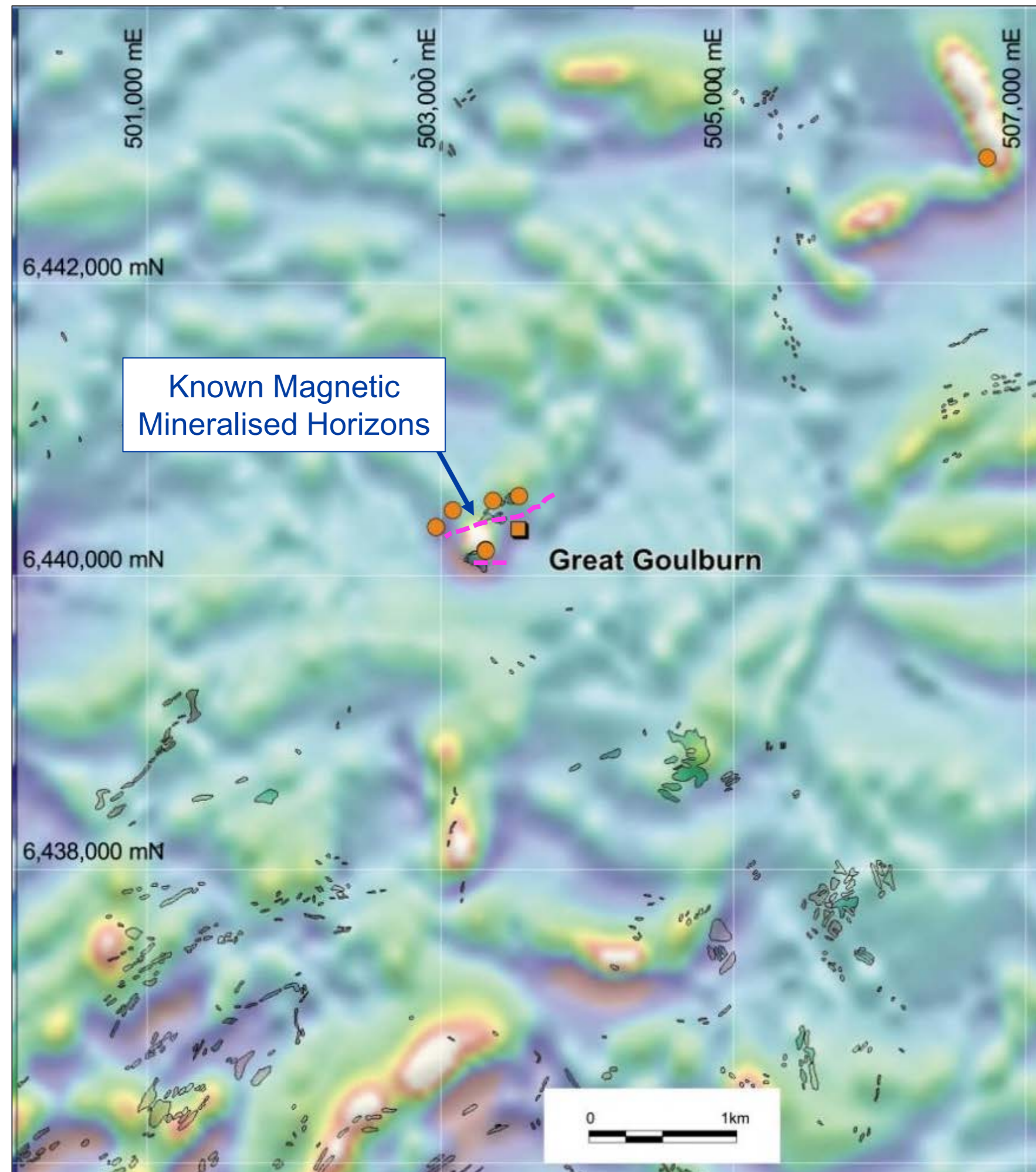


## RC Drill Cross-Section

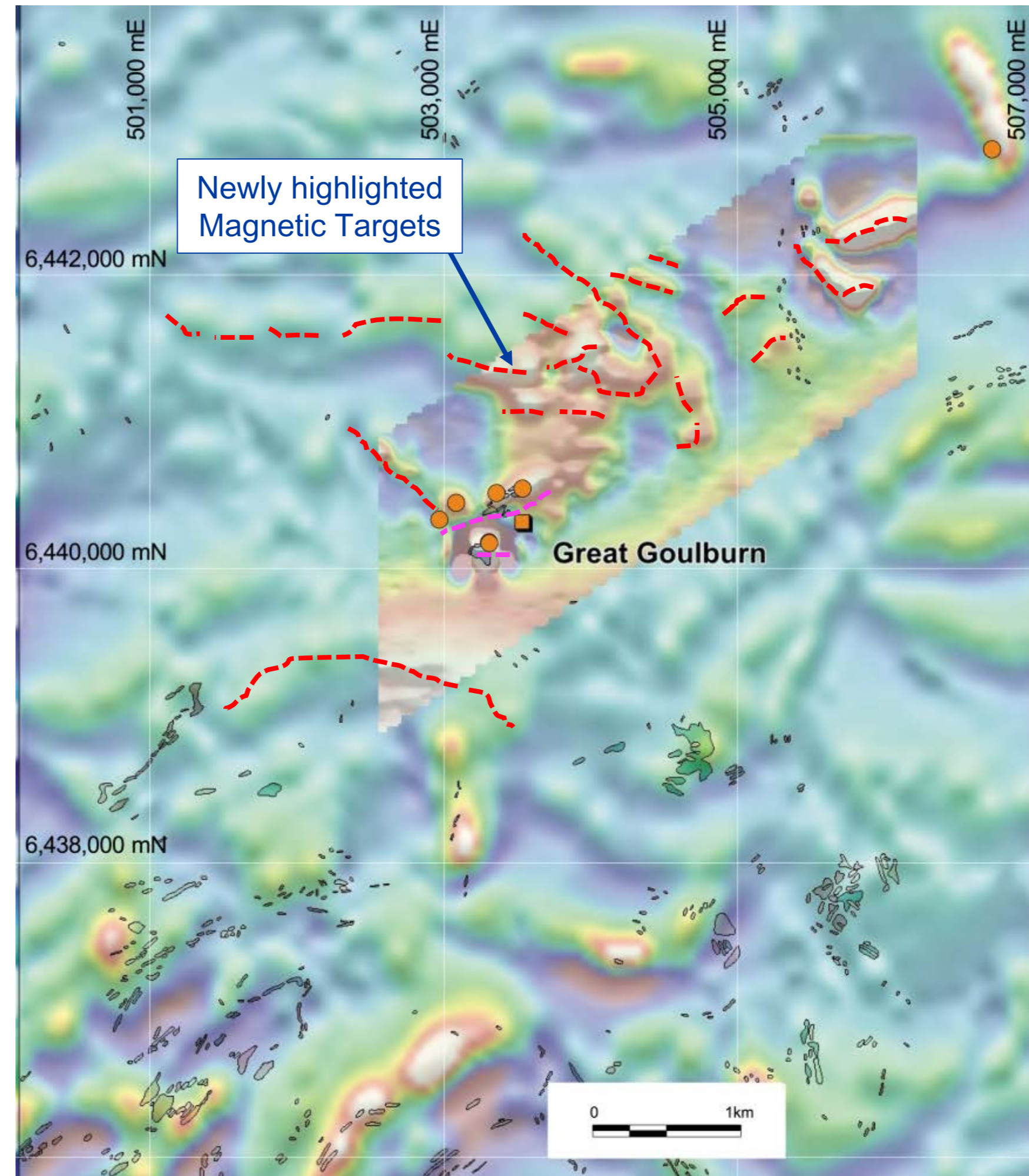
- **AORC004**  
12m @ 0.15 % Co and 0.29 g/t Au  
including:
  - 6m @ 0.2% Co and 0.41 g/t Au
- **AORC009**  
5m @ 0.1 % Co and 0.31 g/t Au

(Refer to ASX release: 22/02/2017)

# Ophara / Great Goulburn Cobalt Prospect



Outcrop Geology-Drilling on **Regional Magnetics**

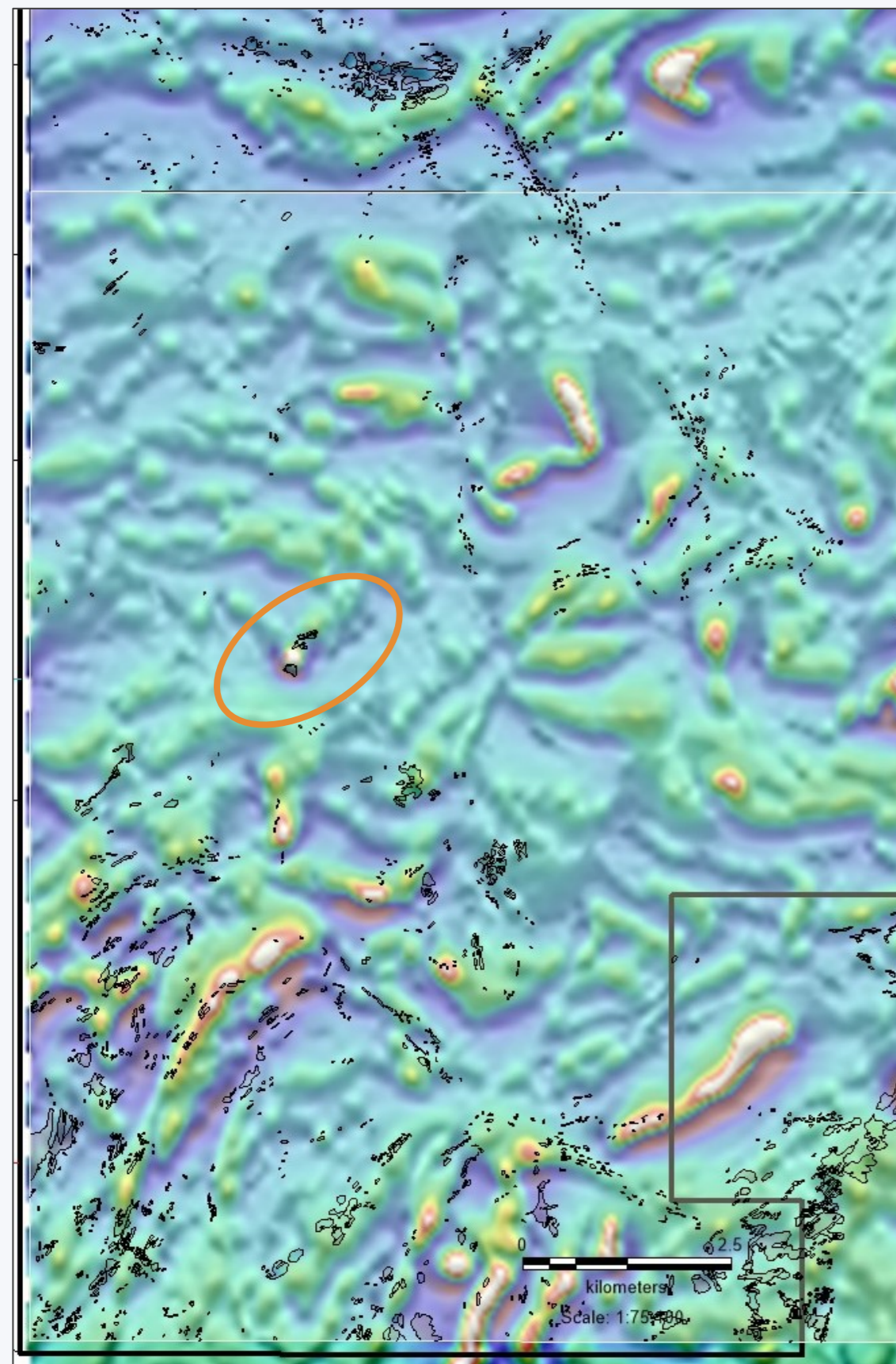


Outcrop Geology-Drilling on new Ground Magnetics

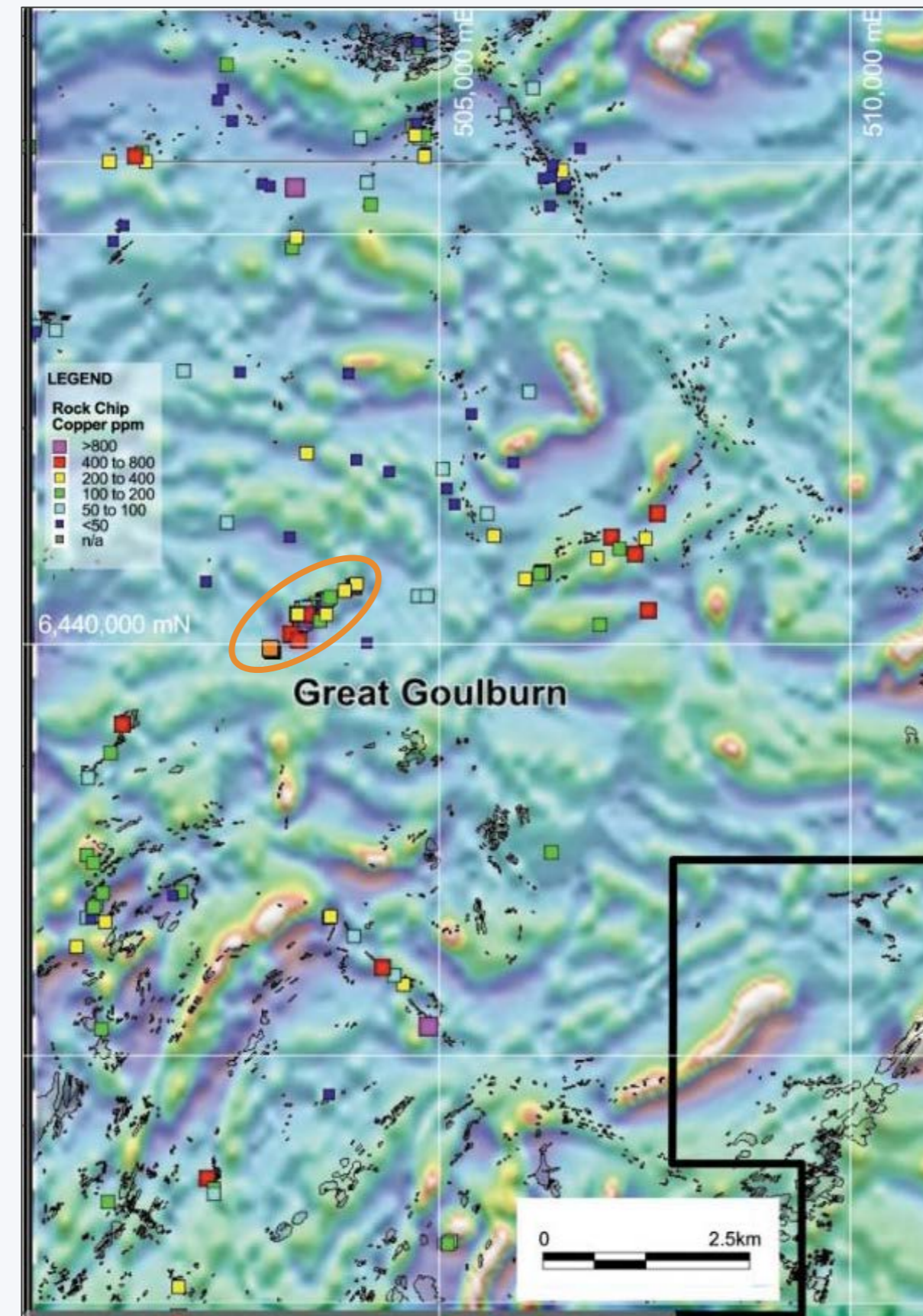
## New Ground Magnetic Survey

- Enhances magnetite targets
- Suggests new targets under cover to the North

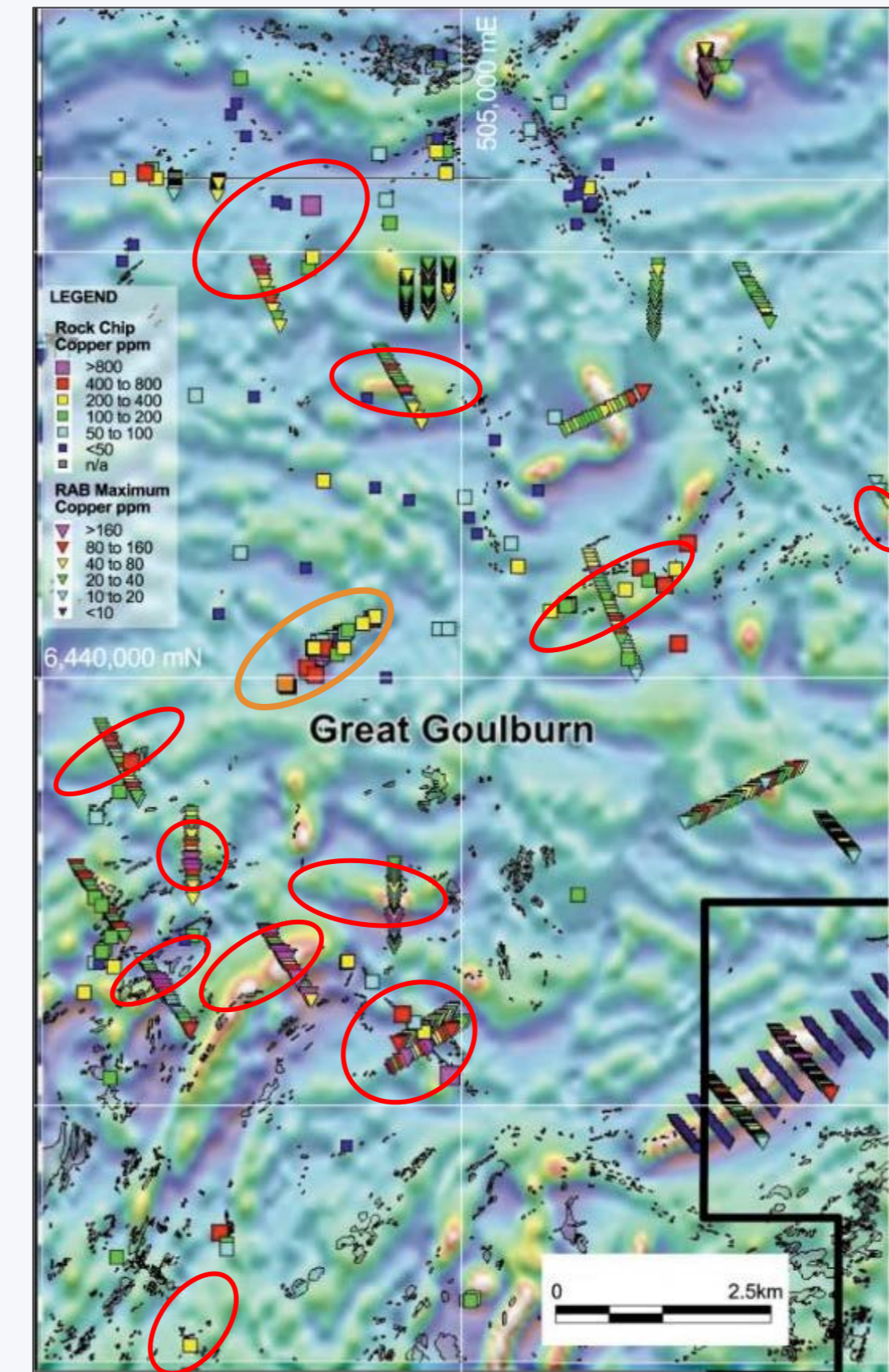
# Ophara / Great Goulburn Cobalt Prospect



Regional **Magnetics** + Outcrop



**Rock chip** sampling - Copper



**RAB** drilling - Copper

## Extensions & New Areas

- Numerous magnetic targets
- Anomalous regional rock chip samples
- Limited RAB drill testing of magnetic anomalies encouraging

# Ophara / Planned Exploration

## Two clear objectives to achieve at the Great Goulburn Prospect:

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1. Define the size and tenor of the known Cobalt-gold mineralisation.
2. Define extensions to mineralisation and new Cobalt-gold mineralised areas.

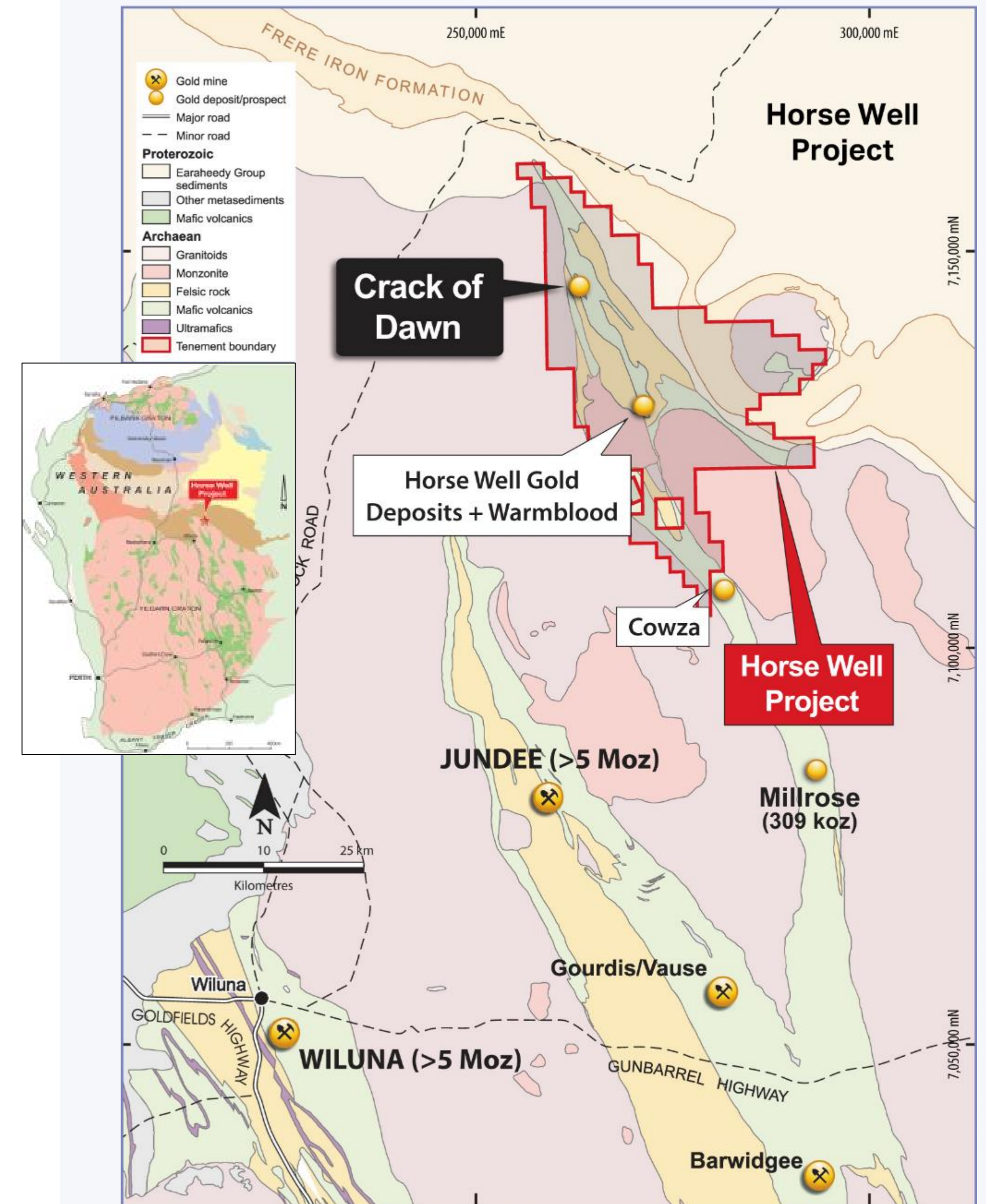
## Potential new exploration activities under consideration:

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- Regional Aerial EM survey to define conductors – target those co-incident with magnetic anomalies
- RAB drill testing of regional anomalies
- Continued RC and RAB drilling of Great Goulburn Extensions

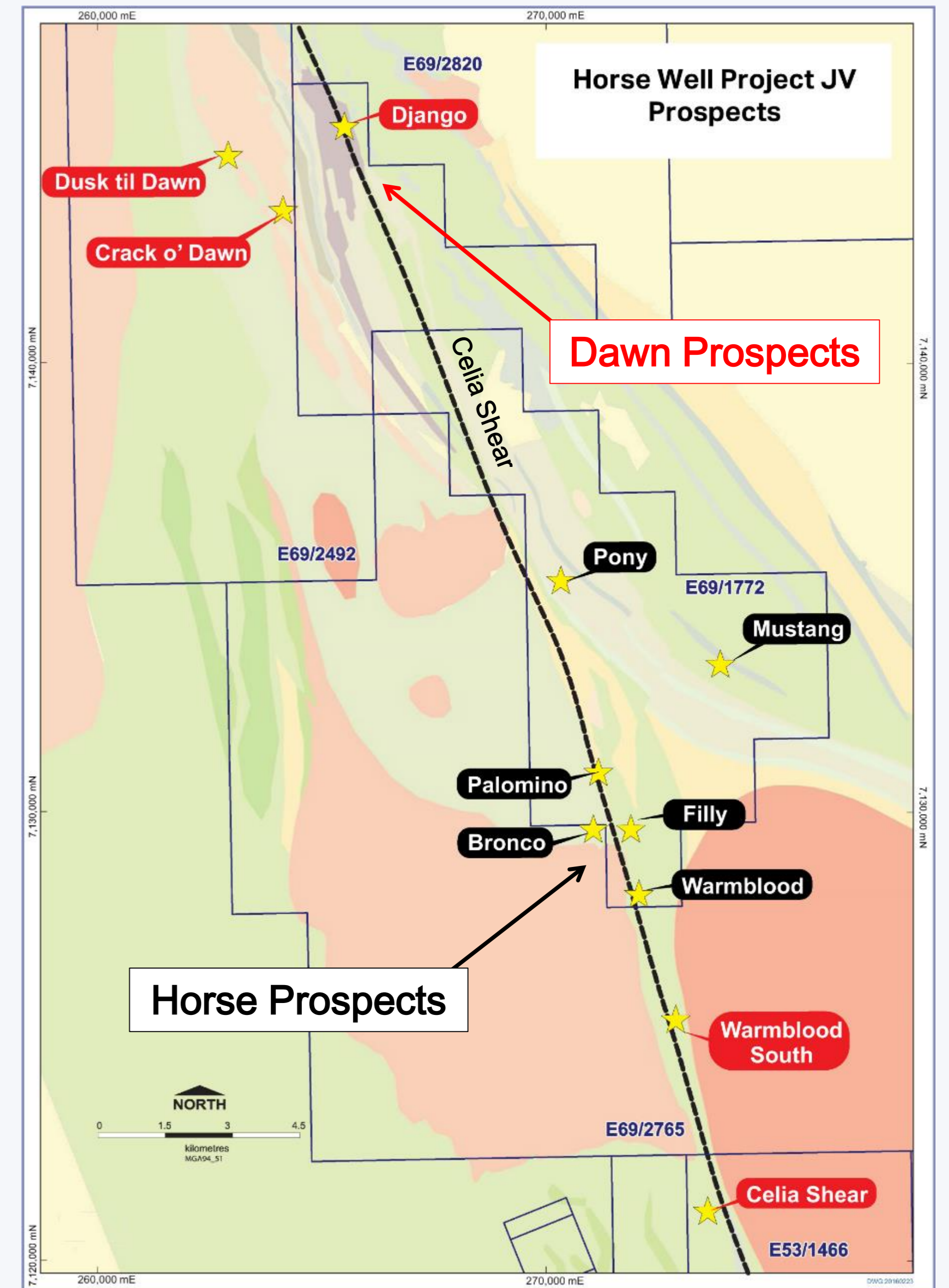
# Horse Well Gold Project JV

- Large 1,000 km<sup>2</sup> Gold Exploration play
- Located in the north-eastern goldfields of Western Australia
- The region hosts major gold deposits at Jundee, Wiluna and Bronzewing
- Doray Minerals have earned a 60% JV interest over 2 years and Alloy is now funding 40% since early 2016
- The JV is conducting broad first and second pass exploration with the aim of discovering a 1 Moz gold deposit capable of supporting a 100 koz per annum gold operation



# Project Status

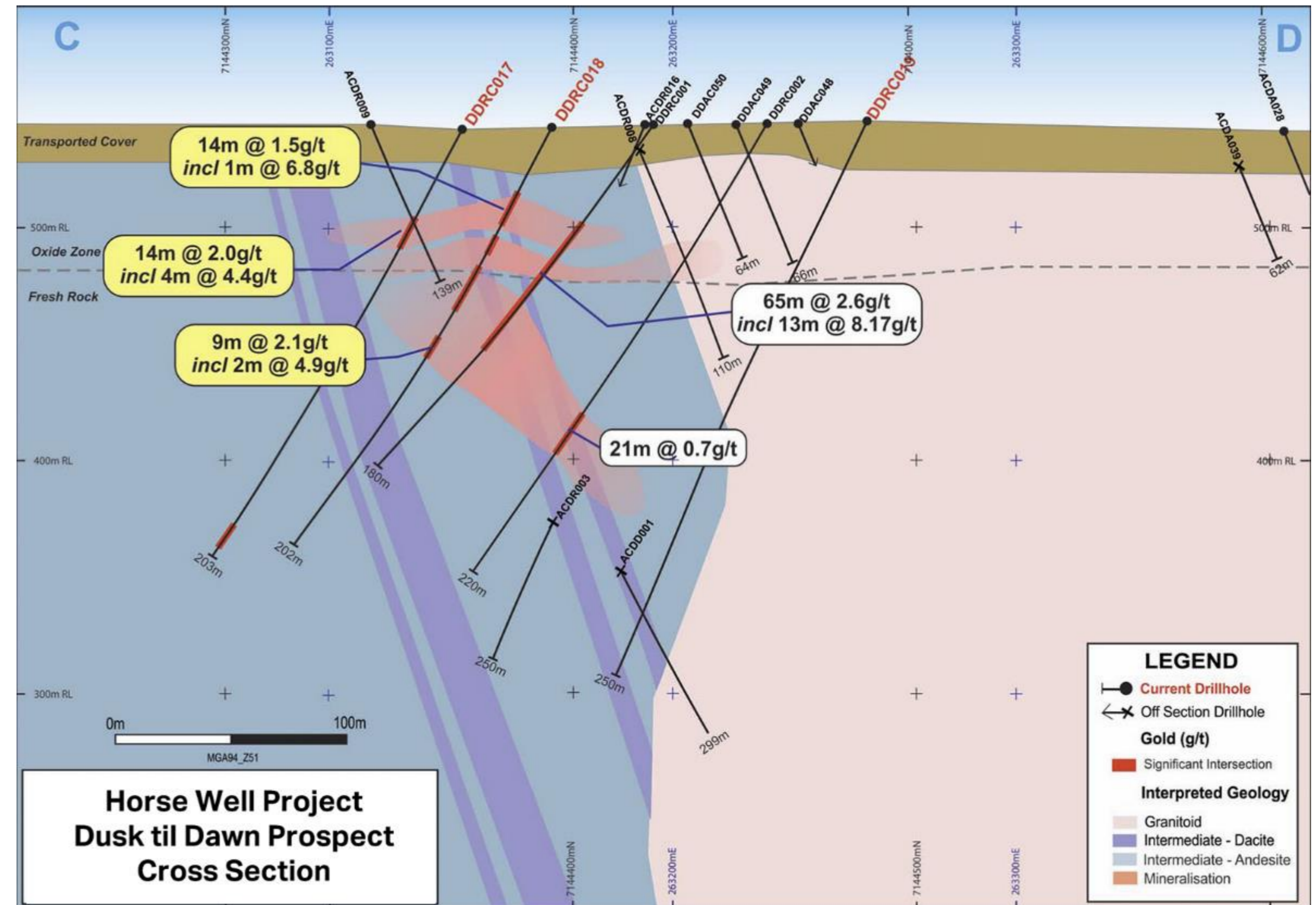
- Over 80% of the project is covered by transported sand meaning exploration requires aeromagnetic survey mapping and then drilling of targets.
- The Project has two main known mineralised areas:
  - the northern **Dawn prospects** area
  - and the southern **Horse prospects** area
- Doray has achieved new gold discoveries in the Dawn prospects area in 2015/16 with definition of the northern Dusk til Dawn and Django prospects.





# Dusk til Dawn Prospect / Proof of Potential

- “Granny Smith style” gold mineralisation on granite contact
- 50m x 40m RC drilling to 200 metres depth has defined mineralisation over 300 metre strike and south east plunge  
(Refer to ASX release: September Quarterly Report, 28/10/2015)
- Zones of high-grade mineralisation intersected:
  - 65 metres @ 2.6 g/t Au including 13 metres @ 8.17 g/t Au
  - 16 metres @ 7.2 g/t Au including 6 metres @ 16.3 g/t Au
- Numerous holes intersected thick moderate grade gold mineralisation such as:
  - 44 metres @ 1.4 g/t Au



# Large New Gold Trends Discovered

Dec Qtr 2015 - Dec Qtr 2016

Extensive drill programs totalling over 50,000 metres of regional air-core and 4,500 metres of RC have been completed:

## Django – Eastern and Central Anomalies

- 10 kilometre long anomalies along the Celia Shear
- 7 kilometres only drilled on 800 m x 160 m spacing
- Anomalies associated with granite intrusives

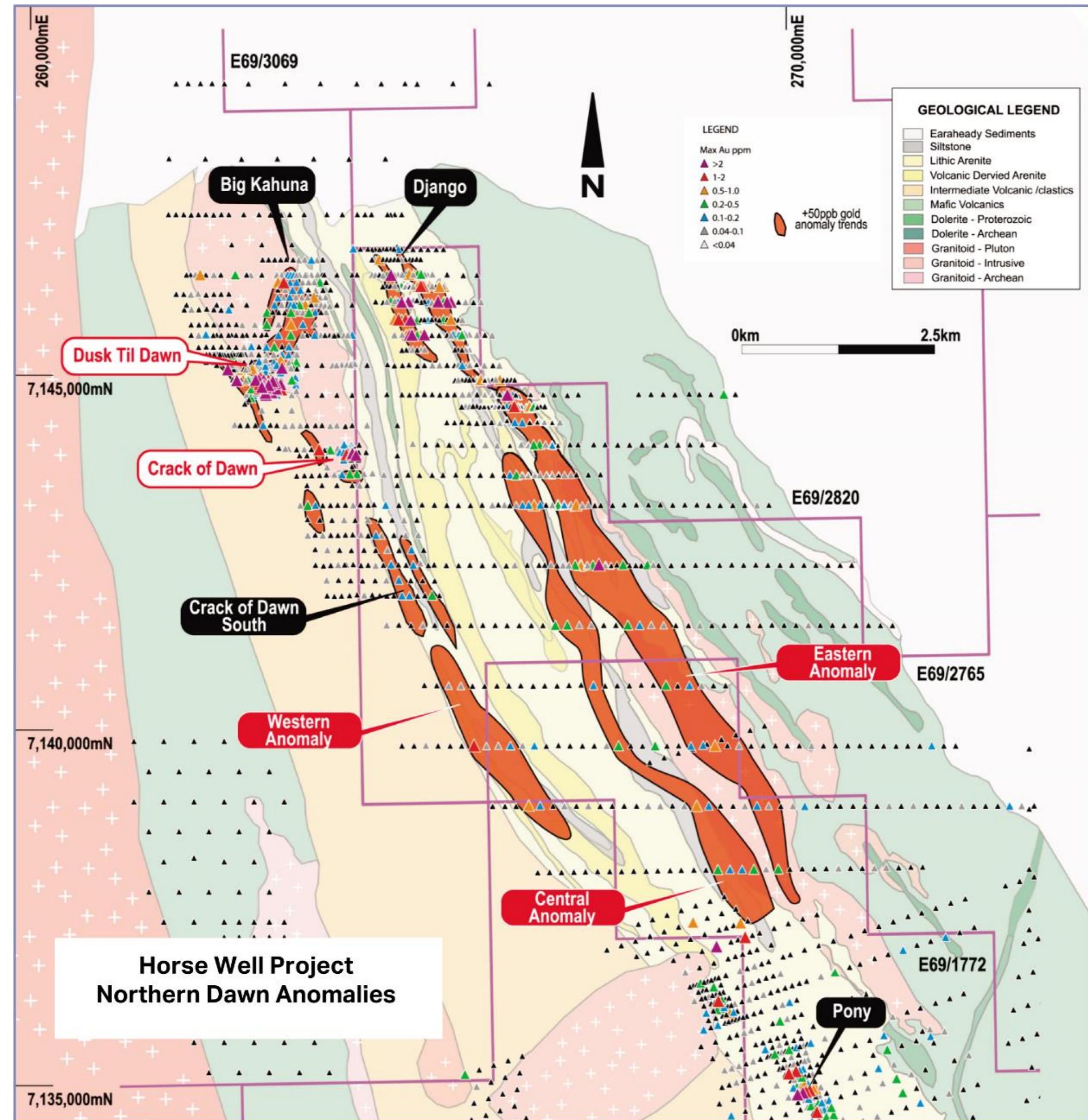
## Crack of Dawn Granite

- New anomalies along the western contact and within the granite

## South of Crack of Dawn

- New anomalies along strike to the south may represent continuation of mineralised structures

A 50 square kilometre gold mineralised system has emerged  
Infill drilling required

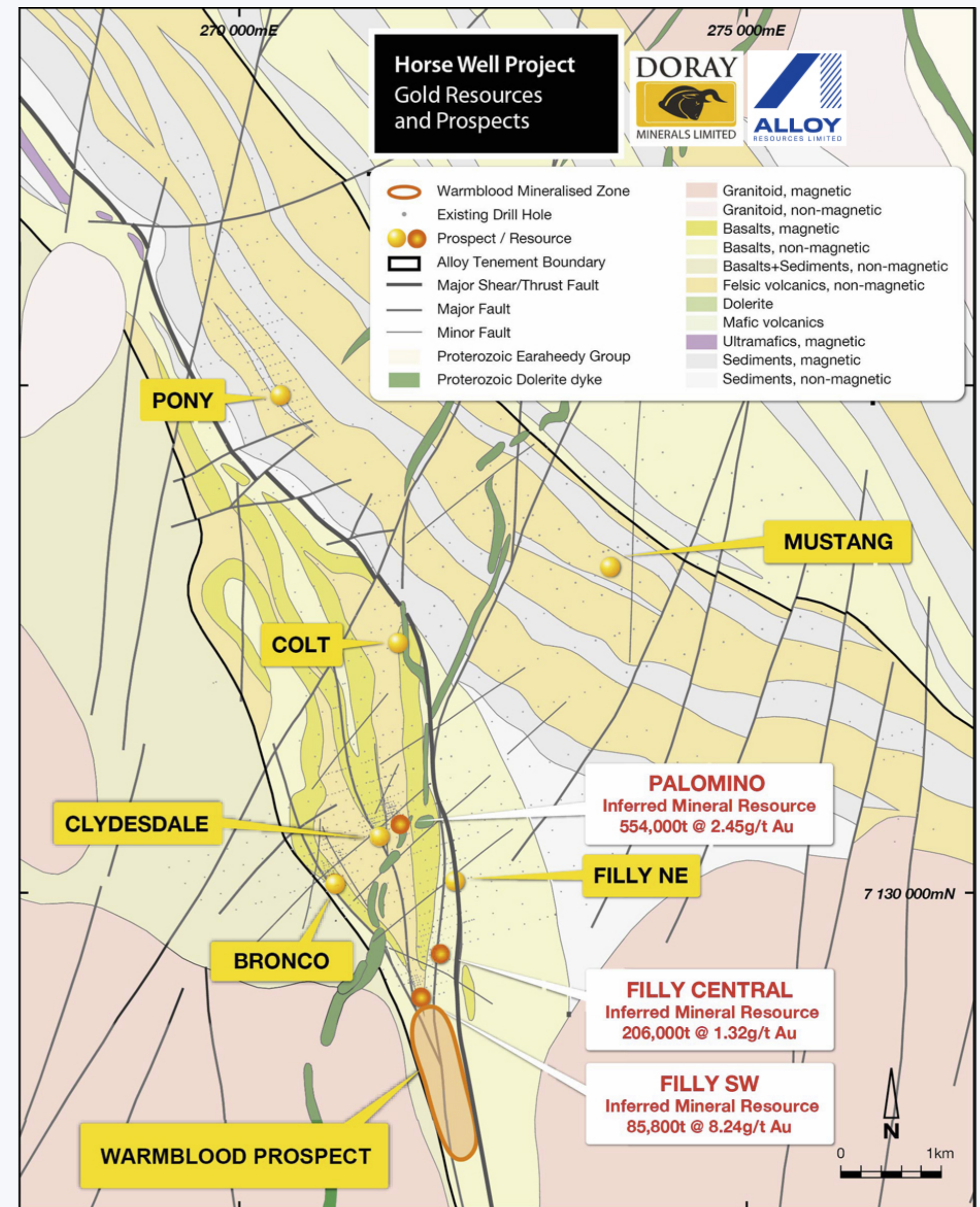


Refer to ASX releases:  
28/01/2016, 29/04/2016, 29/07/2016, 27/10/2016, 27/10/2016, 16/01/2017

# Southern Horse Prospect Area

## Status

- **75,000 oz Inferred Gold Resources**  
(Refer to ASX release: 22/10/2015 and Appendix)
- Mineralisation is shallow (< 130 m) and largely oxide
- New Warmblood Discovery in 2012/2013
- Little drilling of high-grade shoots below 100 m



# Project Generation

Three large landholdings in highly prospective areas of Western Australia

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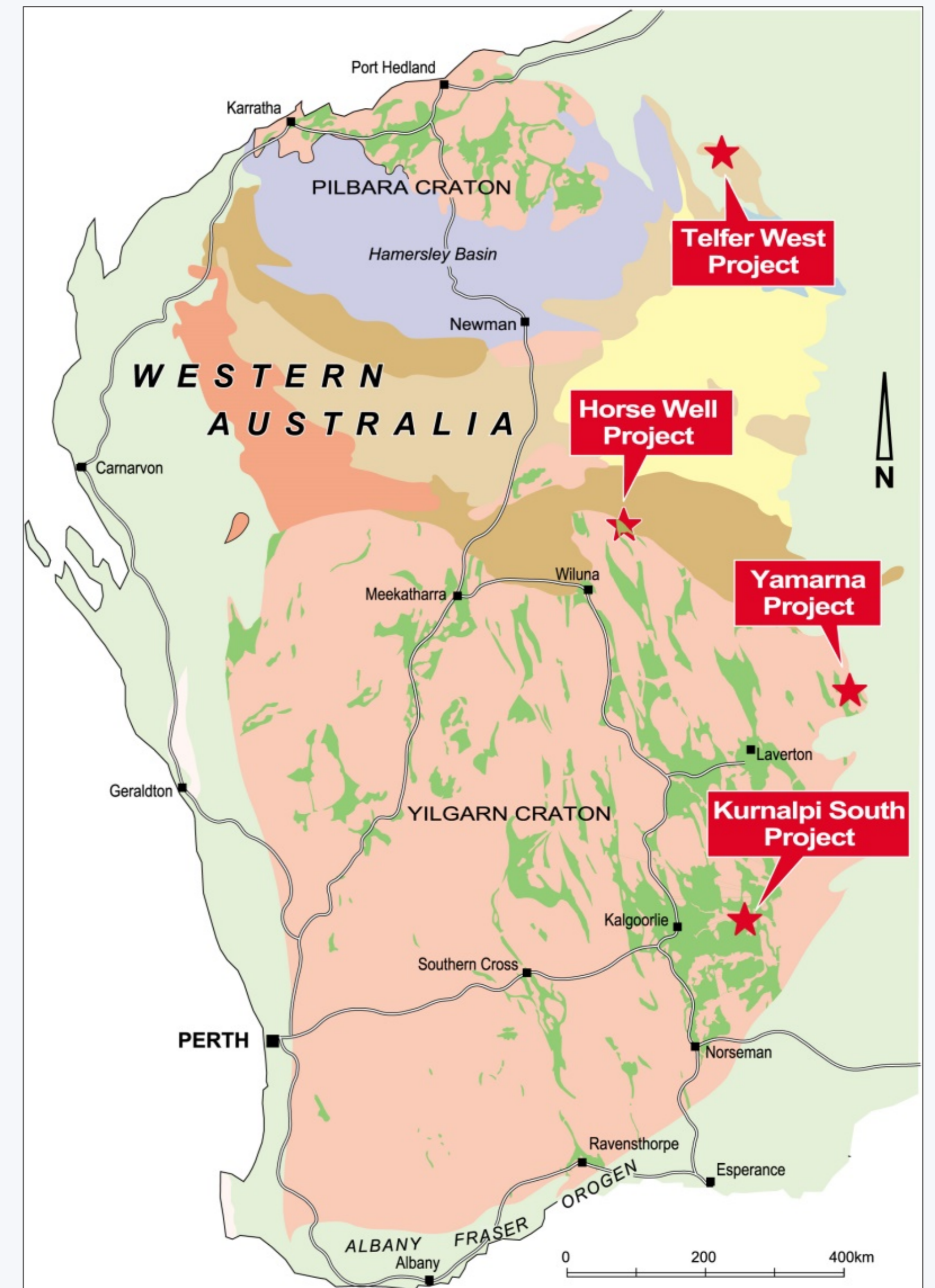
- **Telfer West Project**  
Under application

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- **Yamarna Project**  
Under application

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- **Kurnalpi South Project**  
Recently been granted



# A Highly Leveraged Investment Opportunity

## Alloy Resources Summary

- ✓ **GOLD + COBALT EXPOSURE**      The places to be invested
- ✓ **BIG TARGETS**      From outstanding exploration results & large land holdings
- ✓ **STRATEGIC LOCATIONS**      Geological & Geographical proximity to major mineral deposits
- ✓ **WELL FUNDED**      Strong support for Cobalt–Gold strategy & Doray JV funding
- ✓ **ACTIVITY & NEWS FLOW**      Ophara Cobalt Project & Horse Well JV exploration

Thank you.

# Company Statements

## Horse Well JORC 2012 Inferred Resource

(Refer to ASX release: September 2015 Quarterly Report)

AREA	TONNES	GRADE (G/T)	OUNCES
Palomino	554,000	2.45	43,600
Filly SW	85,800	8.24	22,700
Filly	206,000	1.32	8,700
<b>TOTAL</b>	<b>846,000</b>	<b>2.76</b>	<b>75,100</b>

### NOTES

- All figures are rounded to reflect appropriate levels of confidence. Apparent differences may occur due to rounding.
- The cut-off grades for all Resources are; 0.50 g/t for Oxide, 0.75 g/t for Transition and 1.00 g/t for Fresh weathering classifications.
- Resources have been defined in an A\$1,800 per ounce Whittle optimal shell.
- The Inferred Resource has been estimated using appropriate high grade cuts, minimum mining widths and dilutions