ASX Announcement

28 February 2013

2013 Exploration Program and Investor Presentation

Artemis Resources Limited (ASX: ARV) is pleased to provide an update of its **2013 exploration program** following a review of the current portfolio of key Western Australian base and precious metal assets.

2013 Exploration Program

- ✓ ***Eastern Hills (Antimony)* - Drilling to upgrade the mineralisation to a JORC compliant resource and possible scoping study**
- ✓ ***Yandal (Gold)* - Drilling to upgrade Lowlands gold mineralisation to a JORC compliant resource**
- ✓ **Assess prospectivity of under-explored Yandal greenstone belt targets held by Artemis**
- ✓ ***Mt Clement (Gold)* - Expand JORC compliant resource in high grade zones; test sulphide metallurgy**
- ✓ ***West Pilbara (Gold/Base Metals)* – Follow-up of highest priority targets while engaging potential funding partners**

The exploration program outlined below focuses on Artemis' priority projects that have excellent potential for short term exploration success, particularly the recently announced Eastern Hills antimony-lead project, the Yandal gold project and the Mt Clement gold project. Potential partners are being considered for a number of prospects requiring more intensive exploration funding.

About Artemis Resources

Artemis Resources is an ASX-listed mineral exploration company with a focus on gold and base metals in Western Australia.

Key Gold Projects

Mt Clement	– gold & antimony (WA)
Yandal	– gold (WA)
West Pilbara	– gold/base metals (WA)

Artemis' corporate strategy is to maximise shareholder returns through a combination of exploration success and quality project acquisitions.

The Company's focus on gold and base metals is viewed as an important growth strategy for the Company.

Australian Securities Exchange

Code: ARV

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2013 WORK PROGRAM

- ✓ ***Eastern Hills (Sb-Pb)* –** Artemis is compiling and reviewing historical data on the Eastern Hills antimony-lead deposit[1] prior to an upcoming site visit to review access for drilling and assess the along strike and the sub-parallel massive sulphide vein mineralisation for additional targets. This field campaign will be key to finalising the planned Phase 1 drilling program aimed at both confirming historical mineralisation and obtaining a JORC compliant resource. Subject to successful results, Artemis expects that Phase 2 drilling at Eastern Hills later in 2013 will lead to an expanded resource and subsequent scoping study. The project was previously drilled by Taipan Resources NL in the mid 1990s. A review of historical exploration suggests potential for an initial **exploration target of between 410,000 - 1,250,000t at 1.5-1.9% Sb and 2.1-2.7% Pb[1]**. This exploration target includes potential quantity and grade and is conceptual in nature. There has been insufficient exploration to define these mineral resources and it is uncertain if further exploration will result in the determination of mineral resources. Eastern Hills is located less than 1km southeast of the Mt Clement gold project.

- ✓ ***Yandal (Au)* –** During 2012, Artemis reported successful drill results[2] from its Lowlands and Lowlands South gold projects in the well endowed Yandal greenstone belt. The Company is finalising details for additional drilling to upgrade Lowlands gold mineralisation to a JORC compliant resource, as well as following up encouraging initial results at Lowlands South and other untested geophysical targets. Artemis holds a strong ground position at Yandal immediately south of the recent "bonanza" gold discovery at the Julius prospect[3]. Artemis will undertake further field investigations to assess the prospectivity of its under-explored, but highly prospective, Yandal greenstone belt targets.

- ✓ ***Mt Clement (Au)*** – A database and field review will be undertaken by the in-house technical team to refine targets to drill test interpreted extensions to high grade gold mineralisation, with the objective of expanding the existing JORC compliant resource. Metallurgical testing of sulphide mineralisation will be undertaken to determine gold recoverability at deeper levels in the resource. The gold project is part of a joint venture with Northern Star (Artemis 80%, Northern Star 20%) and is located just 30km south of the Northern Star Paulsens gold mine. The Mt Clement gold deposit contains an Inferred Resource of 1.13Mt at 1.8g/t Au and 17.0g/t Ag (64,000oz gold and 618,000oz silver contained) that is compliant with the JORC Code (2004)[4]

- ✓ ***West Pilbara (Au-Ni-Cu-Fe)* –** The West Pilbara Project covers a large area and is prospective for a broad range of commodities including gold, nickel, copper, PGEs and iron ore. In late 2012, Artemis engaged Snowdens, an independent industry consultant, to undertake a thorough review of the West Pilbara project portfolio. Ground based exploration activities will focus on highest priority gold and copper targets, while potential funding partners will be engaged on prospects requiring more intensive exploration funding.

Artemis has recently strengthened its team with the appointment of a geologist with over 20 years' experience in the industry, and a project geologist. The team will be focused on the above and in addition will seek to rationalise lower priority projects through divestment/farm-out/joint venture and will continue to review new potential project opportunities.

In summary Artemis has a significant tenement position prospective for gold and base metals and intends to build shareholder value through successful exploration and discovery. **An updated investor presentation is attached**.

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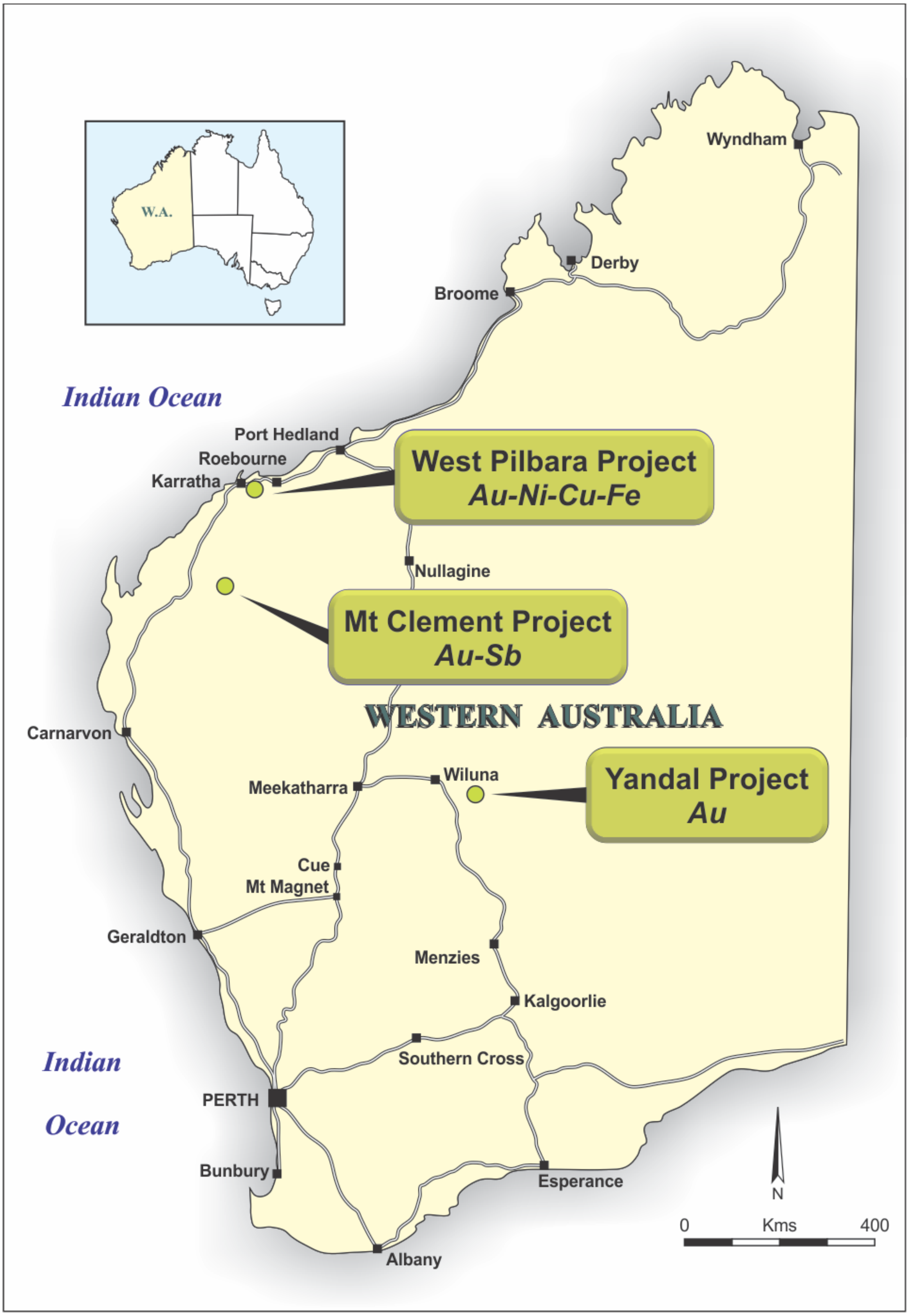
[1] As released in ASX announcement dated 16 January 2013
[2] Refer to ASX announcement dated 20 August 2012
[3] Refer to Echo Resources' ASX Announcement dated 5 February 2013
[4] Mt Clement Inferred Resource previously reported in ASX Announcement dated 26 July 2011



ARTEMIS RESOURCES - KEY WESTERN AUSTRALIAN BASE AND PRECIOUS METAL PROJECTS

ABOUT ARTEMIS RESOURCES

Artemis Resources Limited is a resources exploration company with a focus on its prospective Mt Clement, Yandal and West Pilbara projects in Western Australia. These projects have significant exploration potential and close proximity to existing important deposits or producing mines. While Artemis' main objective is gold, other important metals such as antimony-lead (Eastern Hills), copper-silver (Mt Clement), nickel-copper-PGEs-iron ore (West Pilbara) provide additional prospectivity to these projects. Artemis aims to develop a significant gold/metals inventory through exploration and acquisitions which have the potential to become mines and create shareholder value.

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Forward Looking Statements

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Competent Person Statements

The information in this document that relates to Exploration Results and Exploration Targets is based on information compiled or reviewed by Mr Trevor Woolfe, who is a Member of The Australasian Institute of Mining and Metallurgy. Mr Woolfe is a consultant to the Company, and is employed by Alexander Cable Pty Ltd. Mr Woolfe 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 2004 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Woolfe consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

The Company's Exploration Target includes potential quantity and grade and is conceptual in nature. There has been insufficient exploration to define these mineral resources and it is uncertain if further exploration will result in the determination of mineral resources.

Artemis Resources Ltd

GOLD EXPLORER



Artemis RESOURCES

February 2013

Artemis Resources Ltd

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Throughout this presentation all figures are quoted in A$ dollars unless otherwise stated. You should not act in reliance on this presentation material. This overview of the Company does not purport to be all inclusive or to contain all information which its recipients may require in order to make an informed assessment of Artemis' prospects. You should conduct your own investigation and perform your own analysis in order to satisfy yourself as to the accuracy and completeness of the information, statements and opinions contained in this presentation before making any investment decision.

The Company's Exploration Targets include potential quantity and grade and are conceptual in nature. There has been insufficient exploration to define these mineral resources and it is uncertain if further exploration will result in the determination of mineral resources.

[1] Eastern Hills Exploration Target previously reported in ASX announcement dated 16 January 2013
[2] Mt Clement Inferred Resource previously reported in ASX Announcement dated 26 July 2011

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Highlights

- Yandal: >300 sq km Yandal multi million ounce Gold Belt

  +
- West Pilbara: 700 sq km prospective copper, nickel, iron ore and gold

  +
- Mt Clement: 80,000 oz Au eq. JORC Compliant Inferred Resource

  +
- Eastern Hills: 410-1,250kt @ 1.5-1.9% Sb and 2.1-2.7% Pb Exploration Target[1]

  +
- Cash and Securities $1.8 Million

Market Cap = $5.0 million

The Company's Exploration Target includes potential quantity and grade and is conceptual in nature. There has been insufficient exploration to define these mineral resources and it is uncertain if further exploration will result in the determination of mineral resources.

ARV Corporate Snapshot

ASX: ARV

Market Capitalisation
$5.0 million

Shares on Issue
481 million

Cash, receivables and securities $1.8 m (December 2012)

Major Shareholders
Black Swan (Shemesian) 18%
Legend Mining Ltd 12%

Experienced Board and Management Team

Guy Robertson (B Com (Hons.) CA)	Executive Director
George Frangeskides (LLB)	Technical Director
Shannon Coates (BA. LLB)	Non-executive Director

Guy Robertson (Executive Director) experienced director and CFO with mining exploration companies with 25 years experience including CFO/Corporate positions in the exploration sector.

Trevor Woolfe (GM Exploration) (BSc, MAusIMM, GAICD) geologist with over 20 years experience in the exploration and mining industry. Experience with companies including CRA, Great Central Mines, Newcrest and Placer Dome. Former MD of Anchor Resources Ltd.

Consultants

Dermot Ryan (Principal Consultant) – Xserv Pty Ltd

Southern Geoscience and others – “A” rated exploration teams utilised by Artemis

Artemis RESOURCES

Artemis aims to build a large gold resource inventory through exploration and acquisition

Increase value of Gold Assets

- Exploration
- Development & Production
- Acquisitions

Increase company cash position

- Increase in cash assets
- Divest non core assets

Increase gold resources through exploration → Production via nearby mines

Yandal

West Pilbara

Mount Clement

New Opportunities

ARV Gold Strategy

Artemis Resources Limited (ASX:ARV)

West Pilbara Strategic Assets Au, Fe, Cu, Ni

- 41 major tenements
- Strategic acreage 700 sq kms in prospective region
- Near Karratha (Rio Tinto Hub)
- Gold, Iron, Copper, Nickel

Yandal - Gold

- Yandal 100%
- Yandal (West) 80%
- Gold Belt hosts operating mines Jundee (7moz) Bronzewing (4moz)
- Underexplored since 1990s
- Adjacent to Julius (EAR)

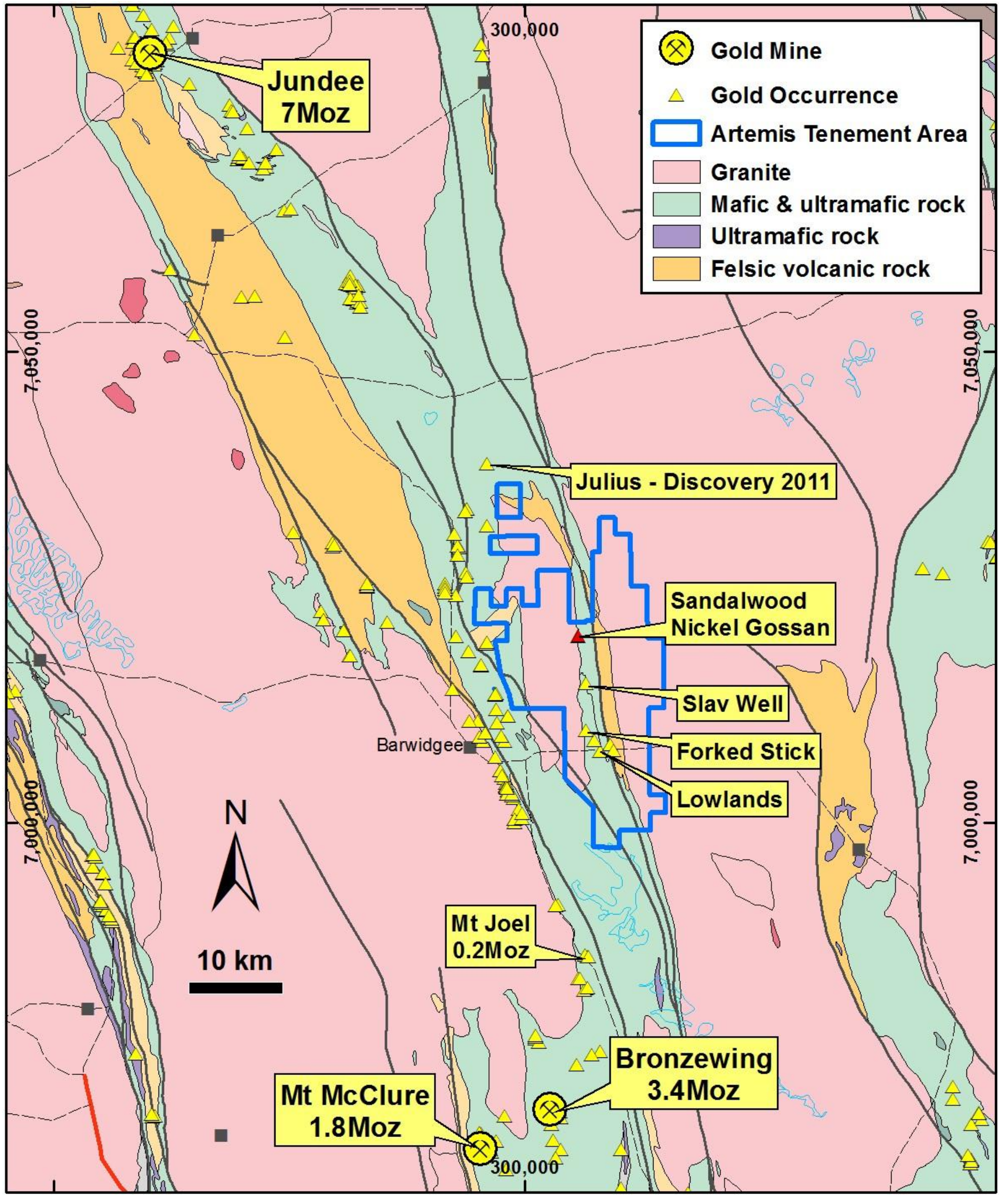
Mt Clement

- JV-Northern Star (NST 20%)
- 80,000oz Au eq. JORC Compliant Inferred Resource[2] + upside
- 30km to NST Paulsens mine
- Eastern Hills – Sb-Pb exploration target[1]

Objective: Increase Gold & Metal Inventory Through Exploration and Acquisition

Gold: Yandal Project

- Located in Yandal Greenstone Belt (12 million oz gold produced)
- Yandal Gold Belt hosts operating gold mines at Jundee (7 million oz) and Bronzewing (4 million)
- Artemis tenements cover multiple drilled gold deposits, yet belt is relatively underexplored
- Yandal project sited on the same fault structures as all other known gold deposits and mines in the province
- More than 30km mineralised strike under tenement by ARV
- 2011 Drilling has extended **Lowlands deposit** and confirmed High Grade Gold mineralisation at **Forked Stick**
- 2012 Drilling (3,150m) determined additional mineralisation down plunge to southwest below known Lowlands resource and 350m to the south of known resource.
- **Julius** discovery (Echo Resources: "bonanza grades" 12m @ 40.2g/t Au - as reported 5 Feb 2013) – adjacent to ARV
- New tenement applications have expanded Artemis' greenstone belt coverage north towards Julius



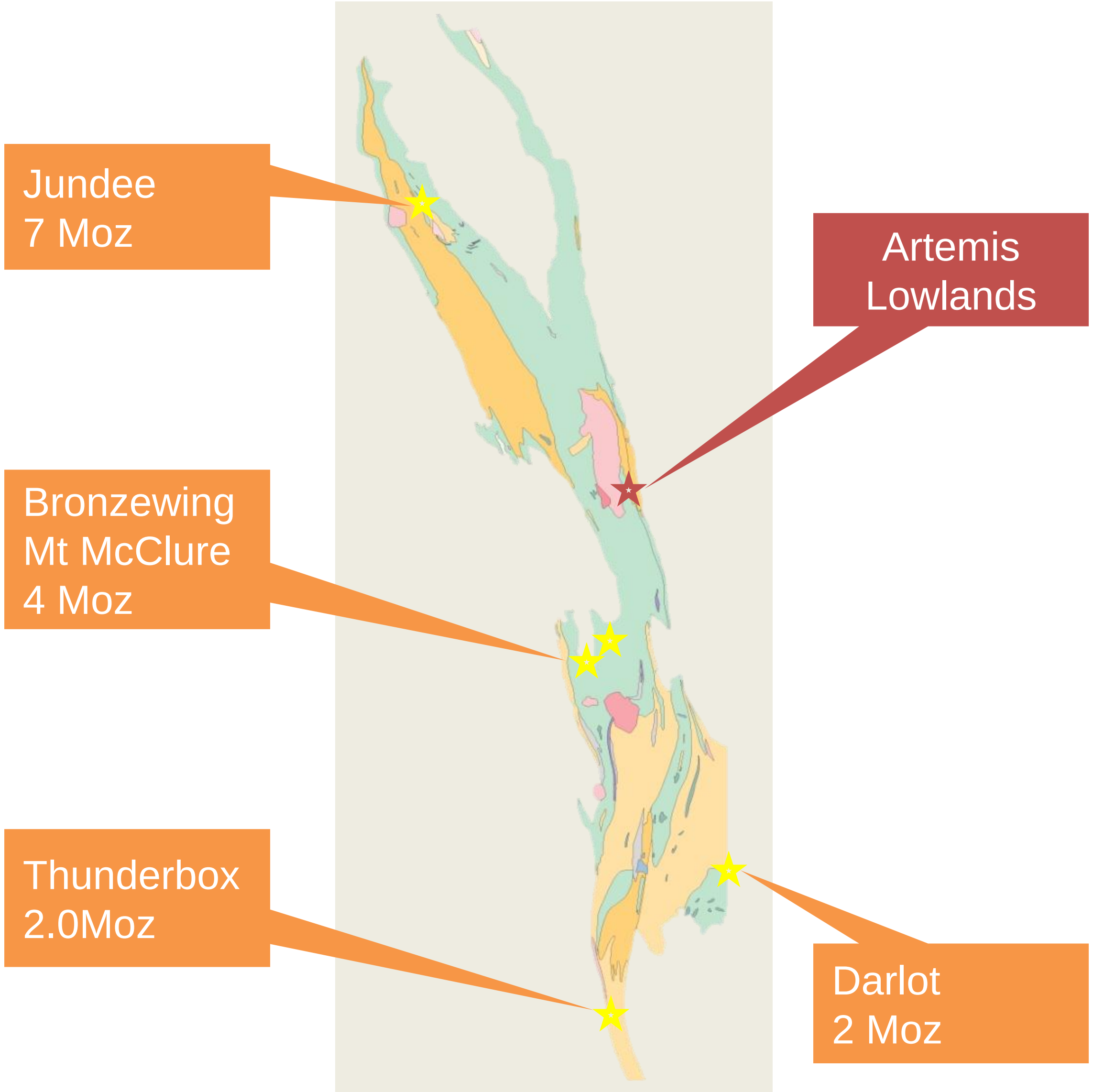
Artemis
RESOURCES

Gold: Yandal Greenstone Belt

A Premier Gold Producing Province

+13 Moz of gold discovered since 1987

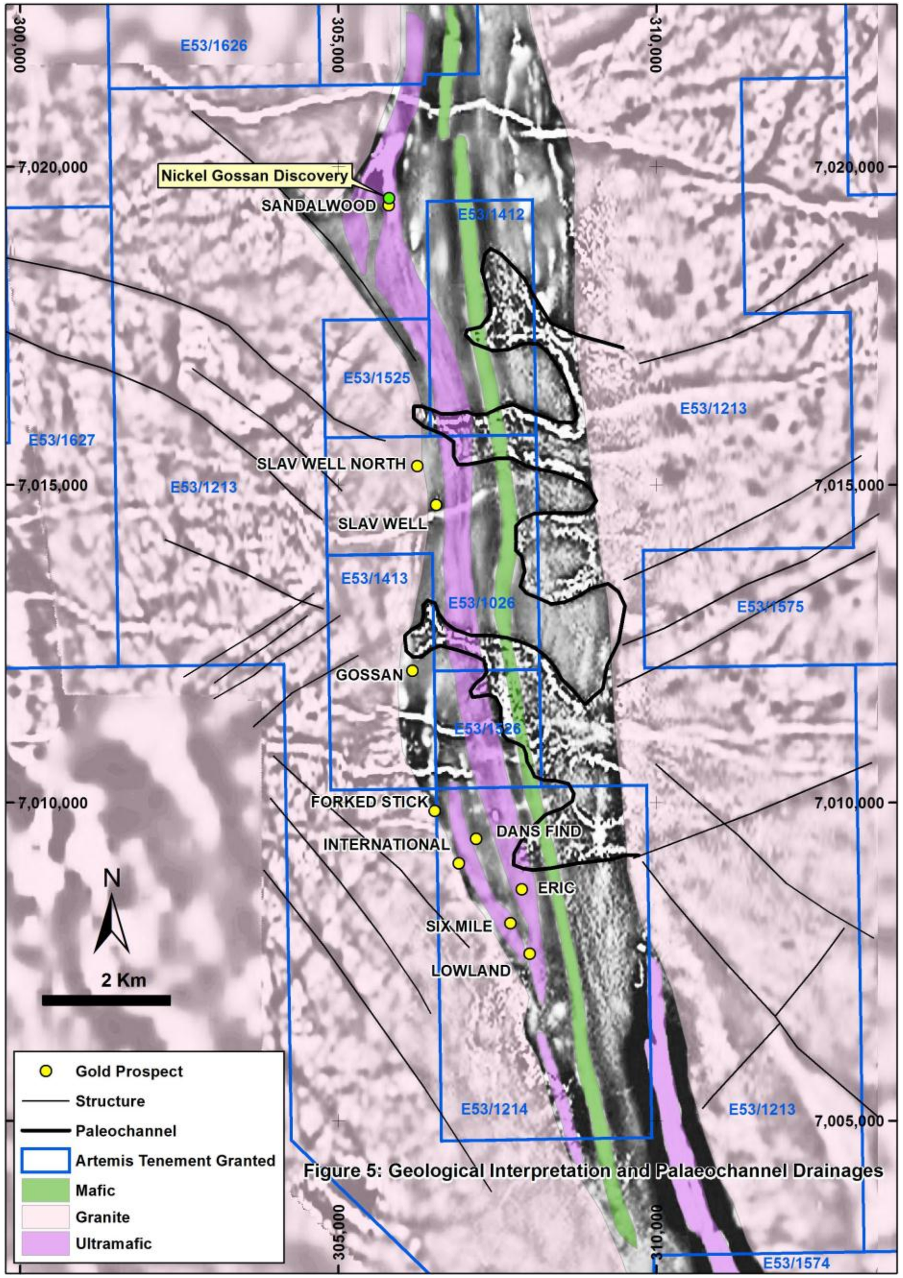
- **Most deposits discovered by Great Central Mines**
- **Under-explored for Au deposits**
- **Potential for +Moz Au discoveries**
- **Existing infrastructure**
- **Multiple Au targets remaining**



Gold: Yandal Project – Mafic & Ultramafic Intrusives

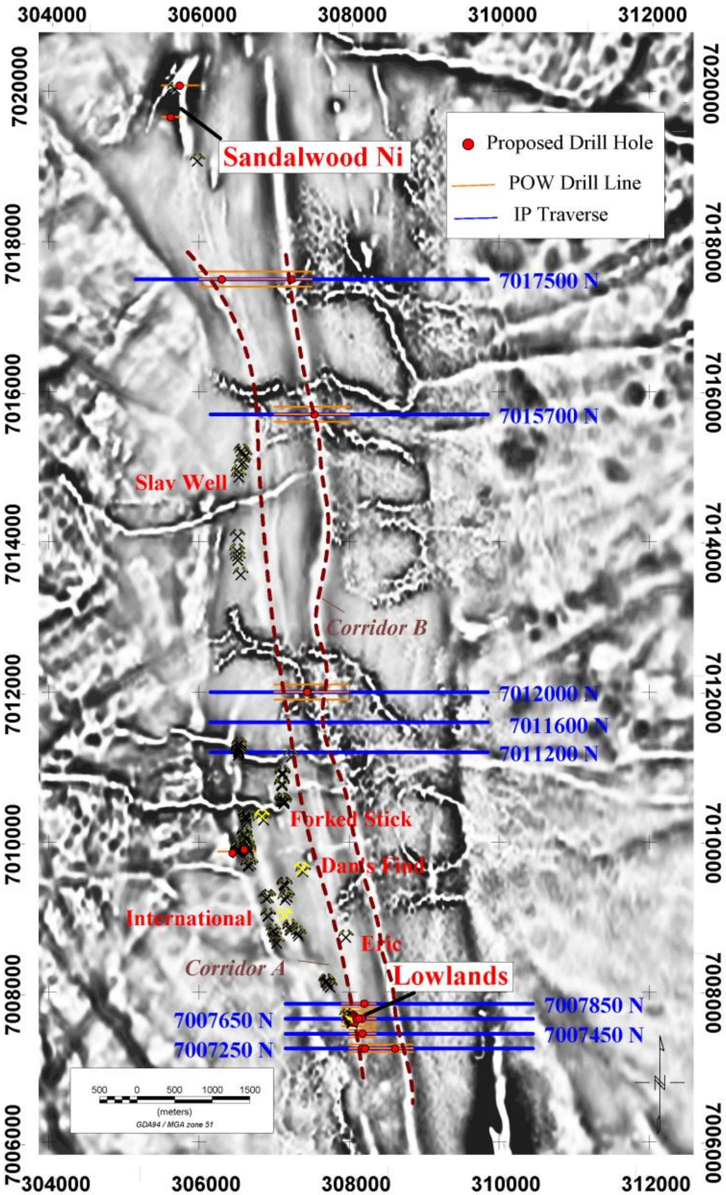
- ✓ Multiple targets identified following comprehensive review of geological setting, geophysics and drilling data
- ✓ Geological setting similar to Bronzewing and Jundee gold deposits
- ✓ Targets include:
  - a north south dolerite feature east of Lowlands – an excellent host for gold mineralisation
  - a highly altered ultramafic unit striking north from Lowlands
  - Lowlands South – 350m south where targeted drilling intersected encouraging maiden gold mineralisation in 2012

Figure: Aeromagnetic Image, Geological Interpretation and Palaeochannel Drainages



Artemis RESOURCES

Gold: Yandal Project – Lowlands 2012 Drill Results



Lowlands

- Diagram highlights pronounced chargeability anomaly along all 4 IP traverses
- 17 RC holes drilled on a portion of the 47 targets

Drill Results

- Assays from Lowlands 4m composite RC samples highlight ‘pipe’ or shoot-like body of gold mineralisation plunging to southwest, (40m at 1.2g/t Au in hole YARC 29 in oxide).
- Gold mineralisation at intersection of mineralised altered magnetic basalt and northwest trending shear zone.
- N-S trending mineralised altered magnetic basalt identified as primary mineralised structure 350m S of Lowlands (12m at 1.96 g/t in hole YARC 20).

The key 2012 drill results were:

YARC29	**40m @ 1.21 g/t Au - known Lowlands oxide zone**
YARC23	**8m @ 1.52 g/t Au - beneath known oxide**
YARC30	**12m @ 1.06 g/t Au - beneath known oxide**
YARC20	**12m @ 1.96 g/t Au - 350m south of Lowlands**

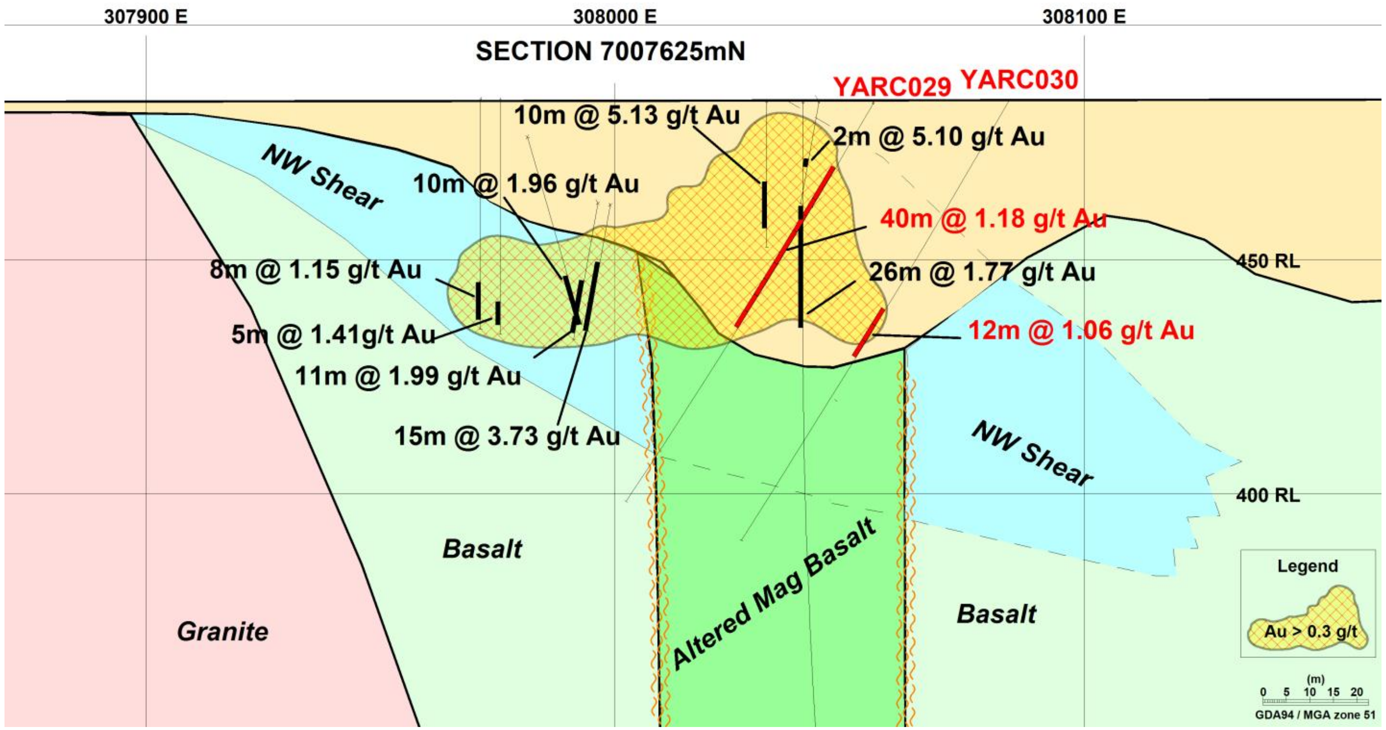
Previous drilling results at Lowlands includes:

10m @5.13 g/t Au – Lowlands oxide zone
15m @3.73 g/t Au – Lowlands oxide zone
26m @1.77 g/t Au – Lowlands oxide zone

Lowlands: Yandal Project – 2012 Drill Results

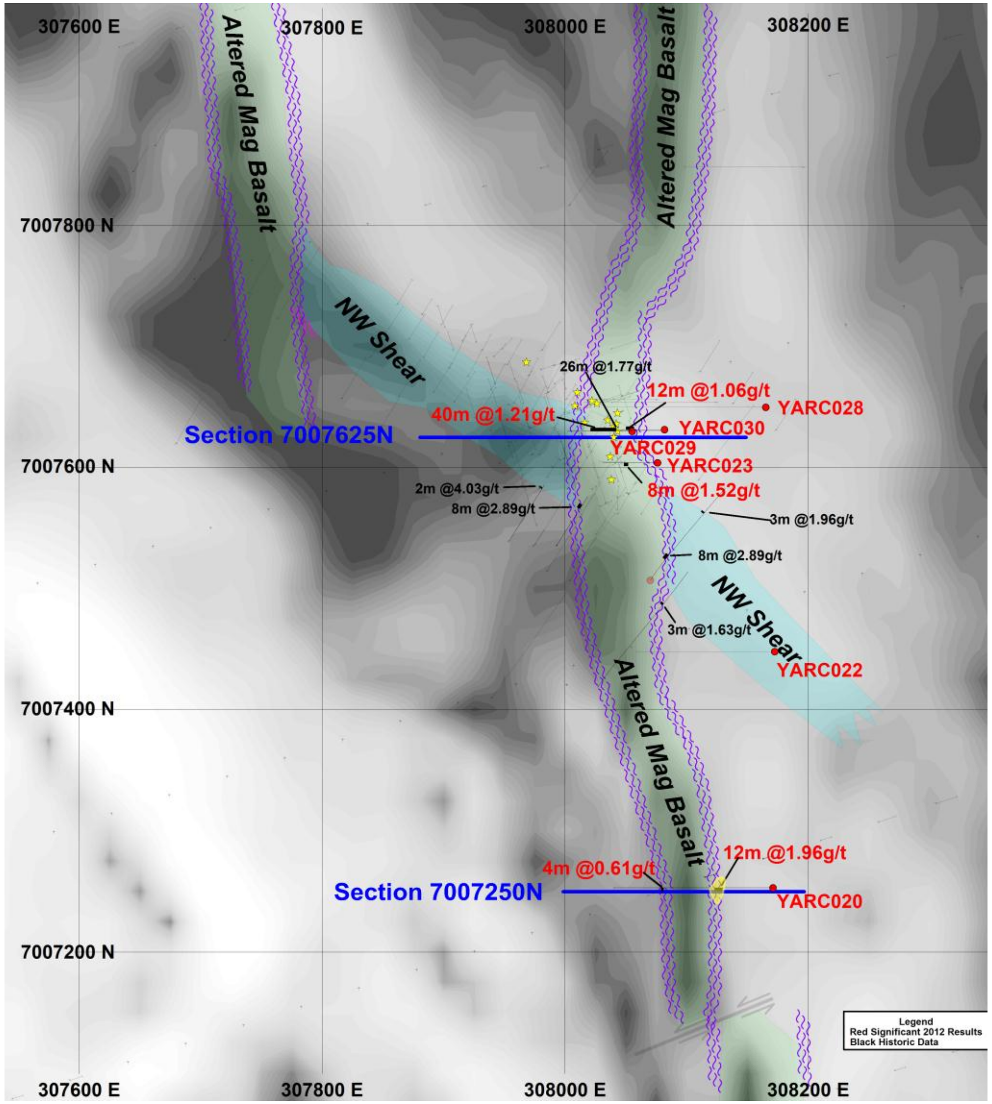
- The 2012 drill programme provided strong indications of the presence of additional gold mineralisation down plunge to the southwest beneath the historical Lowlands resource.

- The drilling suggests gold mineralisation occurs in a ‘pipe’ or shoot located at the intersection of a northerly trending zone of sheared and altered magnetic basalt, (the source of the IP anomalism) and a previously known northwest striking, shallow southwest dipping shear zone (see Figure below).



Artemis RESOURCES

Lowlands: Yandal Project – 2012 Drill Results

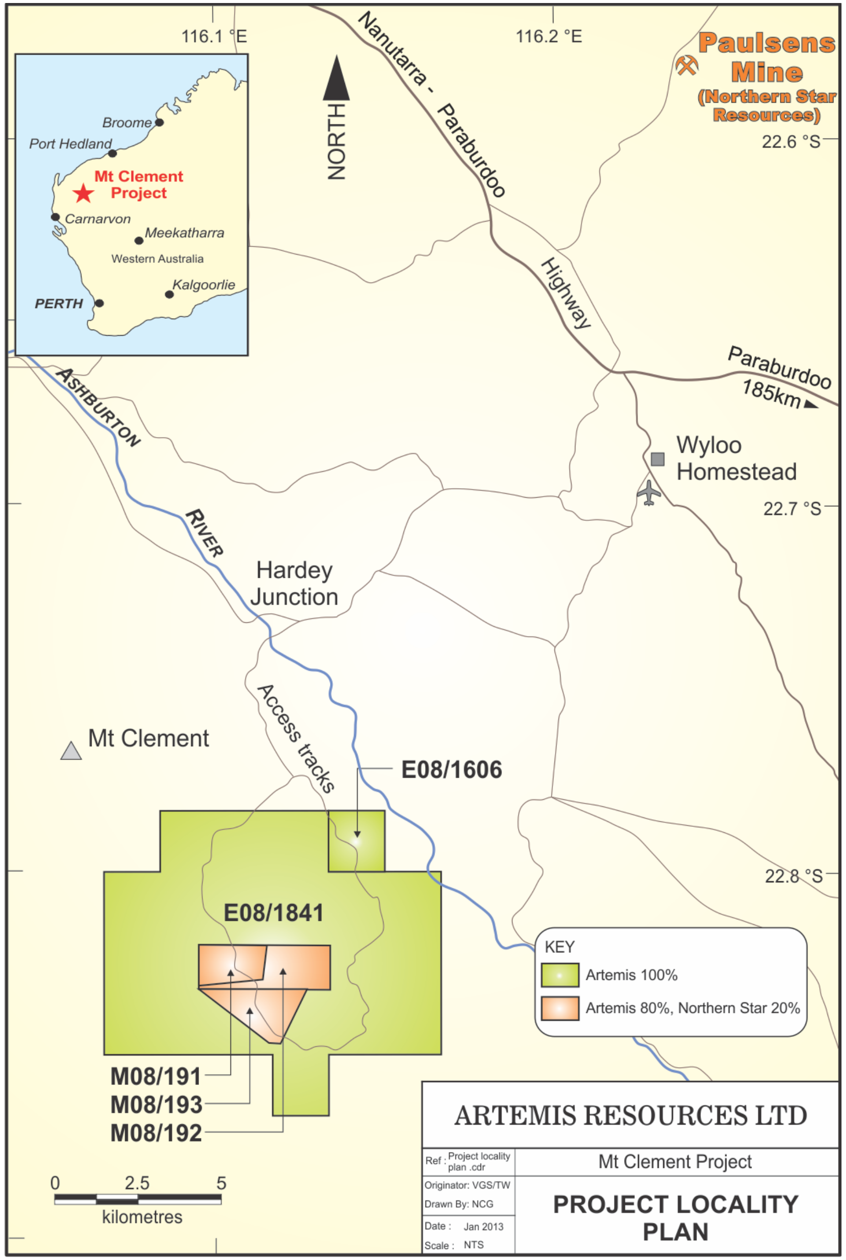


- At **Lowlands South**:
- Drill holes YAR022 and YARC020 intersected soil-covered gold mineralisation within and on the margins of the same sheared and altered magnetic basalt which host Lowlands.
- Hole YARC022 intersected 84m of low grade gold mineralisation with gold values up to 0.49g/t over 4m.
- The hole farthest south, YARC020, intersected a 12m interval of 1.96g/t gold.
- This mineralisation is **open in all directions** as no other drilling has been undertaken in this southern area.

Mount Clement Project

Summary

- ARV holds 80% interest in three Mining Leases (20% Northern Star Resources Limited)
- ARV holds 100% interest in two Exploration Licences
- Located in prospective Ashburton Basin with area achieving increased exploration success
- JORC-compliant inferred gold-silver resource
- Potential to substantially increase resources with further drilling
- 30km from Northern Star's operating Paulsens gold mine and plant
- New Eastern Hills antimony-lead deposit recently announced

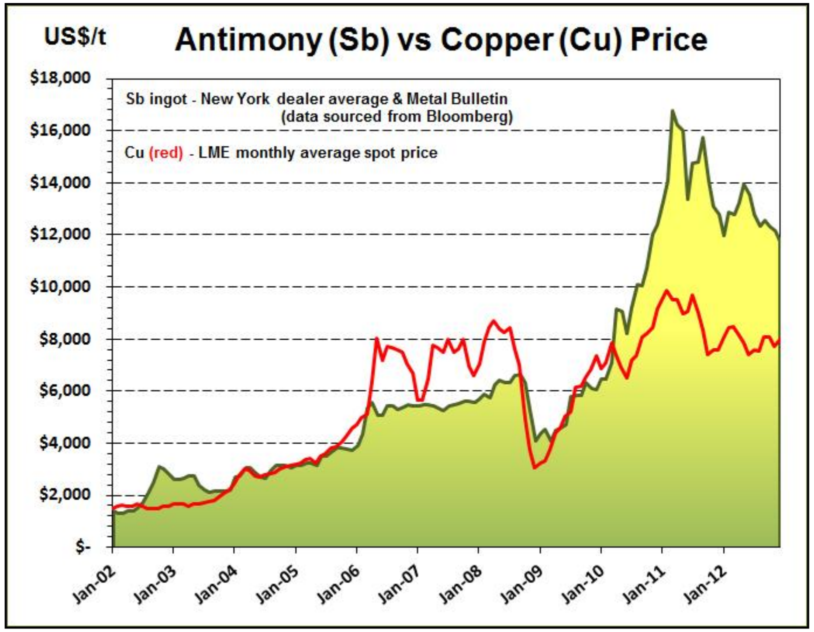


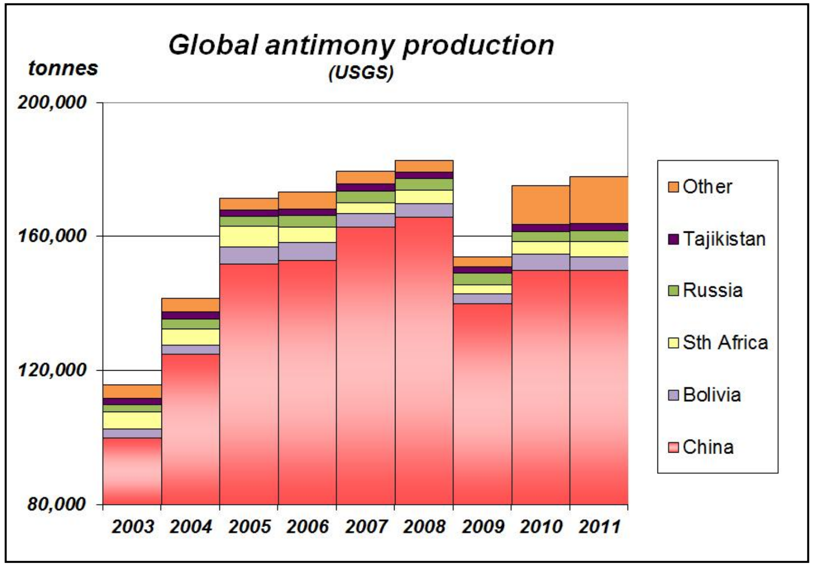
Artemis RESOURCES

Mount Clement Project

Why antimony (Sb)

- Antimony is a specialty metal
- Used in fire retardants, hardener in alloys, lead acid batteries, PET plastic production
- Antimony price has surged 6-fold in ten years
- Now trading around U$12,000/t, 50% higher than copper which is currently ~U$8,000/t
- Strong demand since early 2000s
- Global output dominated by China (around 85%)
- Alternate production from high sovereign risk countries – new sources required
- Risky reliance on China as a source of global antimony has led to the European Commission placing antimony on its list of 14 Critical Raw Materials

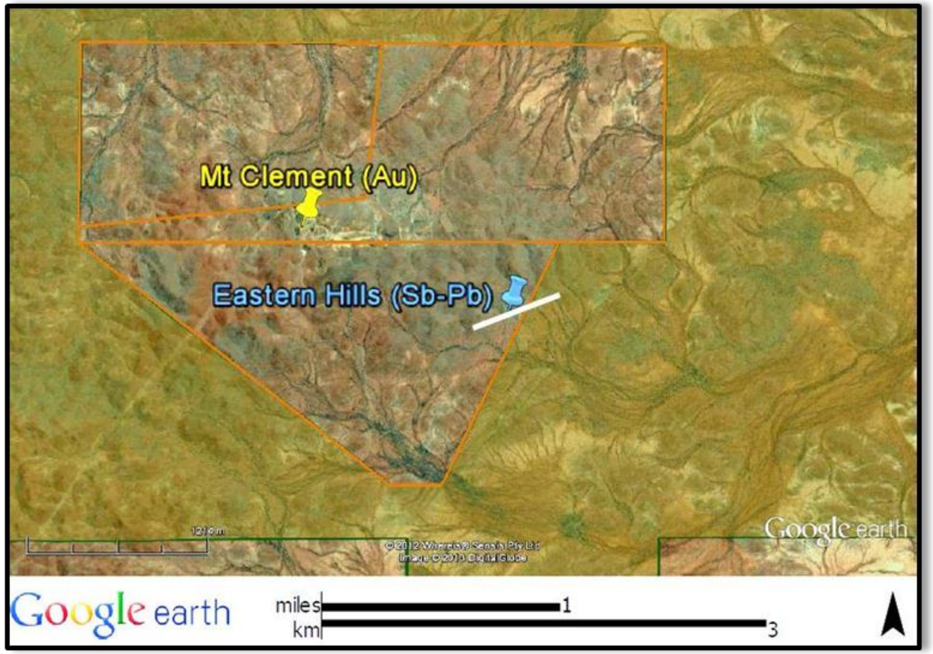


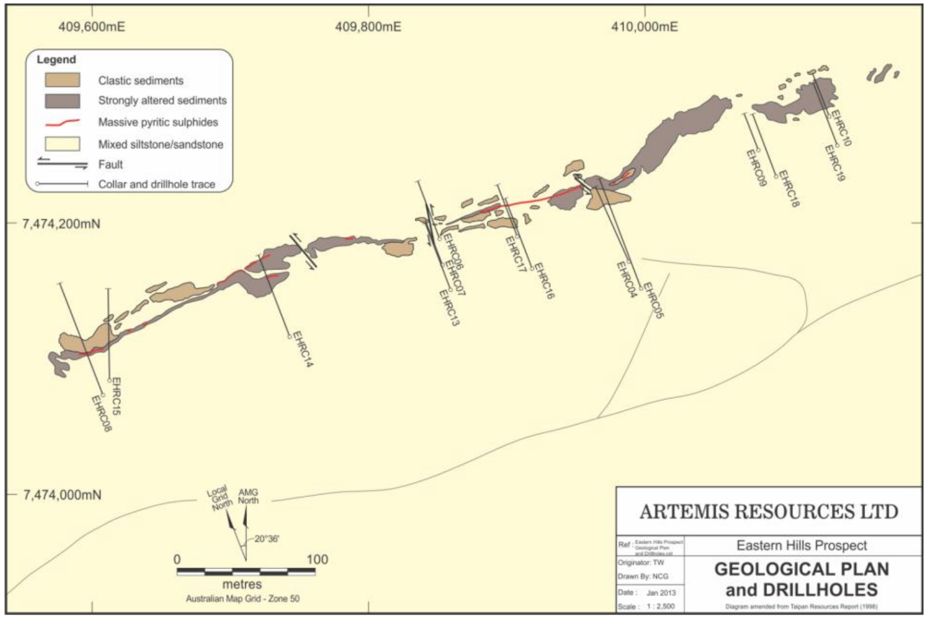


Artemis RESOURCES

Eastern Hills – Antimony-Lead Deposit

- Discovered by Taipan Resources NL in 1996-7
- Pre-JORC historic resource estimated
- Artemis estimates initial exploration target in the range 410,000 - 1,250,000t at 1.5-1.9% Sb and 2.1-2.7% Pb[1]
- Precious metal credits of around 0.22g/t Au & 26g/t Ag
- Less than 1km SE of Mt Clement gold project
- 14 RC drillholes define the quartz vein hosted deposit
- Massive sulphides include pyrite, pyrrhotite and boulangerite (lead-antimony sulphide)
- Initial metallurgy indicated recoveries for Sb and Pb over 98% using simple flotation
- *The Company's Exploration Target includes potential quantity and grade and is conceptual in nature. There has been insufficient exploration to define these mineral resources and it is uncertain if further exploration will result in the determination of mineral resources.*

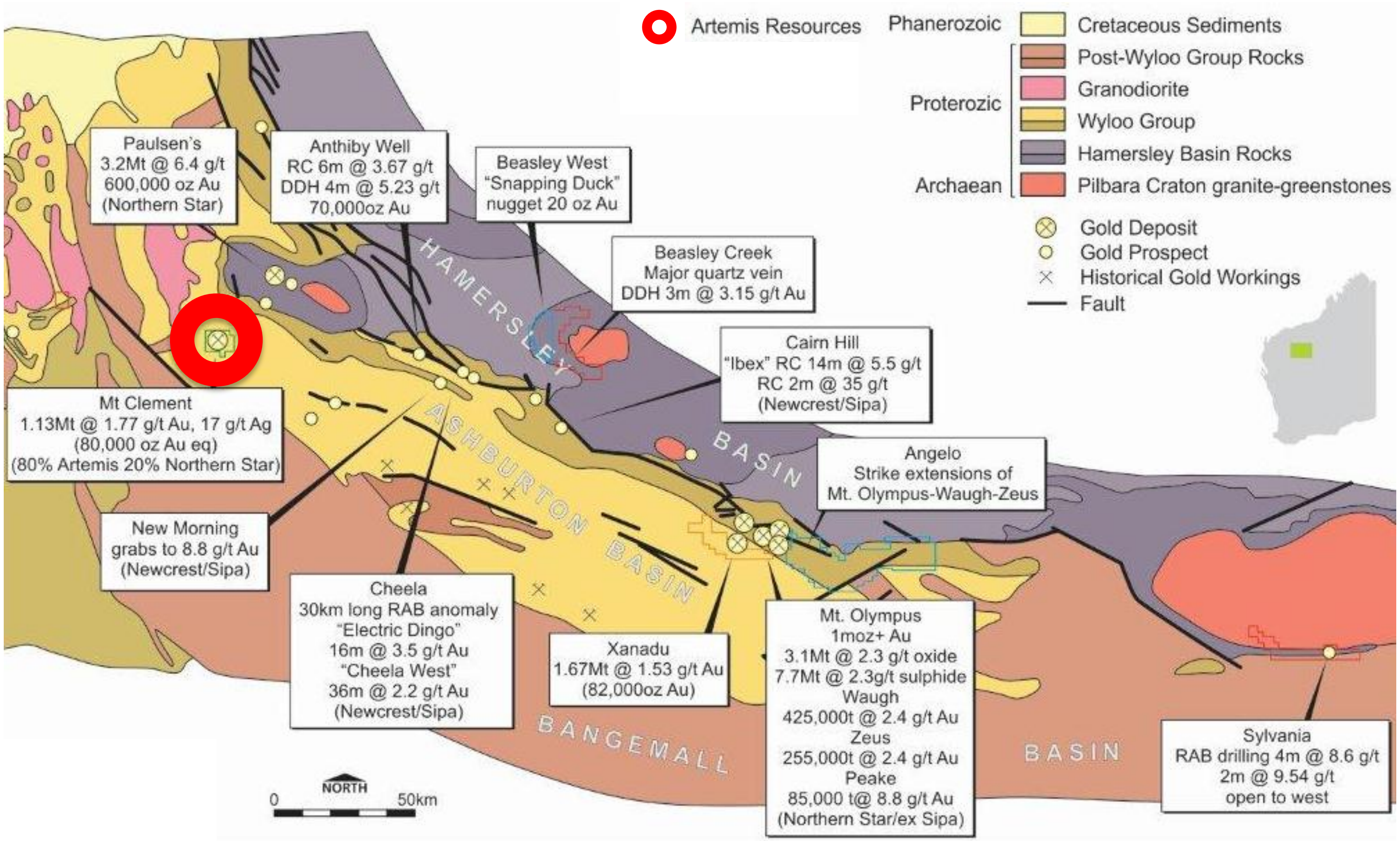




Artemis RESOURCES

Mount Clement Project

Ashburton Gold Basin, WA



Gold: Mt Clement Project – Adjacent to Paulsens Mine

Paulsens CIP Plant ~30km from Mt Clement
(Owned by 20% JV partner Northern Star Resources Ltd)

Mt Clement Gold Project

Paulsens – Measured, Indicated and Inferred Inventory 403,000oz
JORC Resource 2,418,000 tonnes @ 5.0g/t as at 30 June 2012

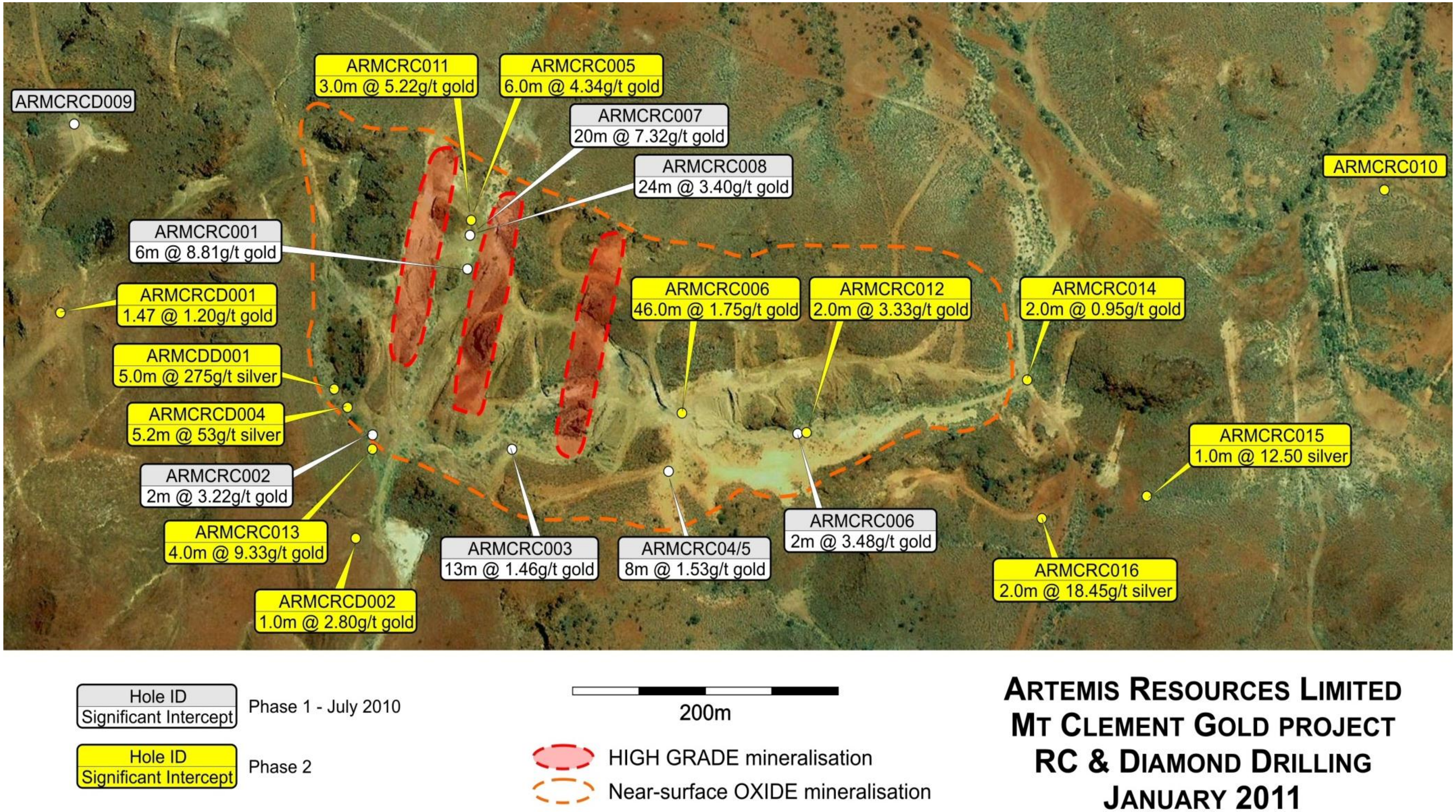
Cost per oz US$600 (Dec qtr 2012)

Production Plan for 2013 expected to produce 100,000 to 115,000 oz

As reported by NST on its website.

Artemis RESOURCES

Mount Clement Project



ARTEMIS RESOURCES LIMITED
MT CLEMENT GOLD PROJECT
RC & DIAMOND DRILLING
JANUARY 2011

Artemis
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Mount Clement Project

Resources

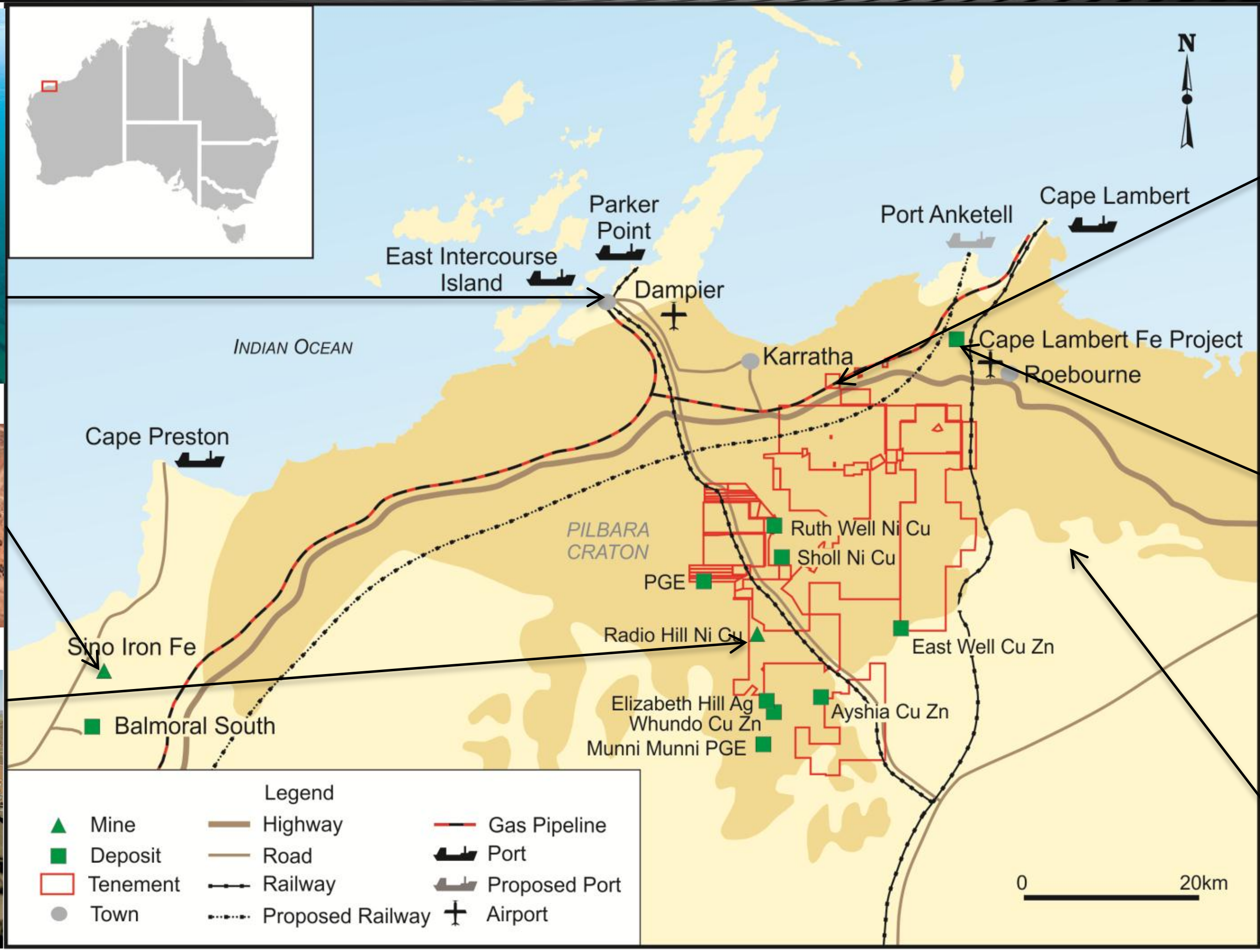
- Inferred JORC Resource[2]
- 1,006,000 tonnes at 1.65g/t Au (53,500oz Au) and 9.7g/t Ag (314,500oz Ag)

  - in near surface oxidised material
- 125,000 tonnes at 2.71g/t Au (10,900oz Au) and 75.6g/t Ag (304,000oz Ag)

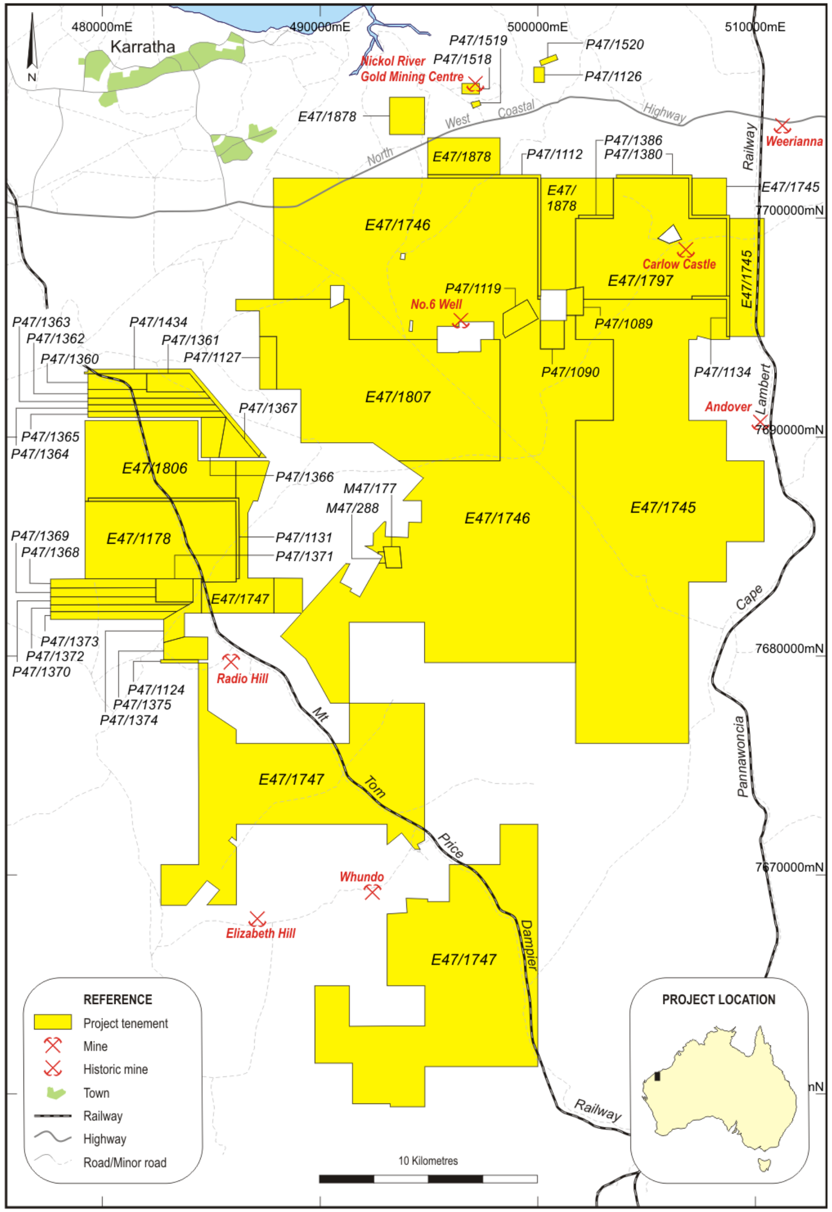
  - in deeper, sulphide lenses

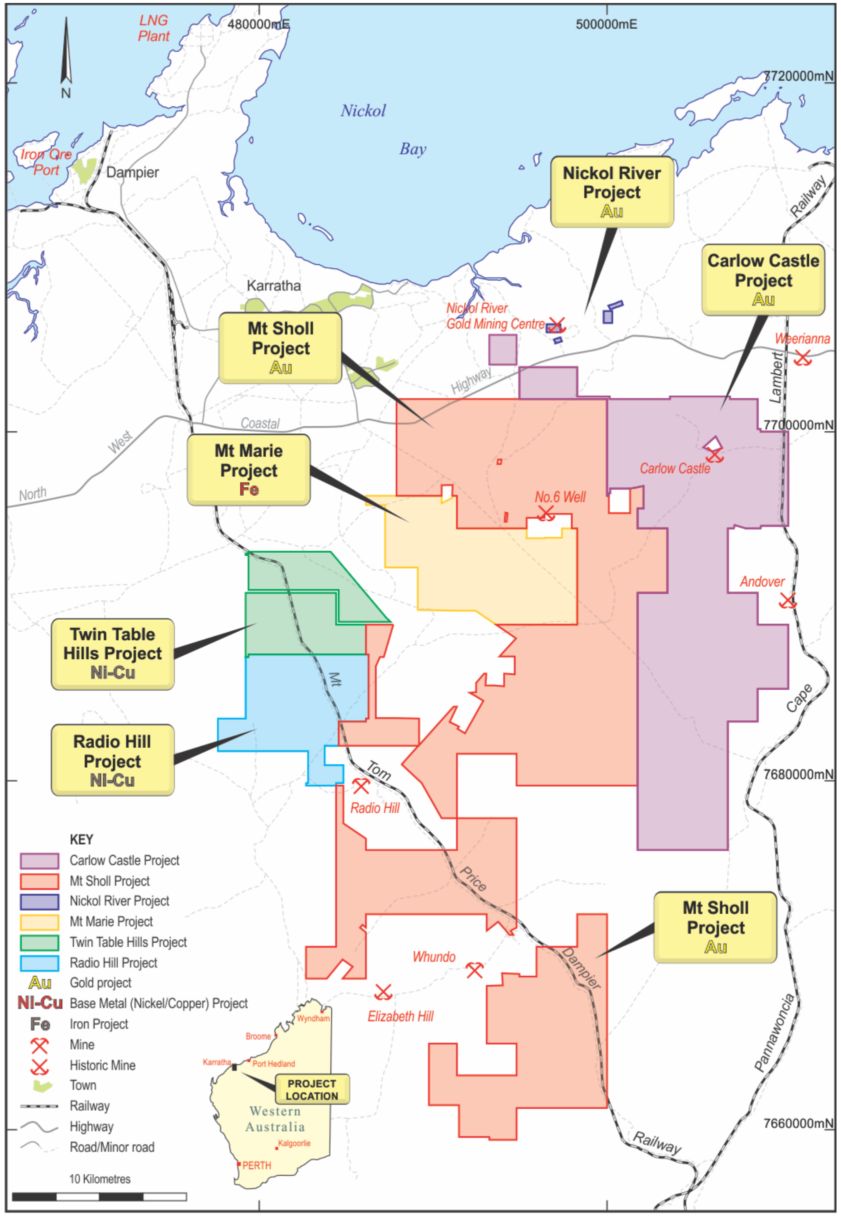
- Open down dip and along strike
- Targets to expand resources, both oxide and sulphide, identified in immediate vicinity of defined resource
- Potential for additional high grade lenses away from defined resource warrants exploration

ARV West Pilbara Tenements



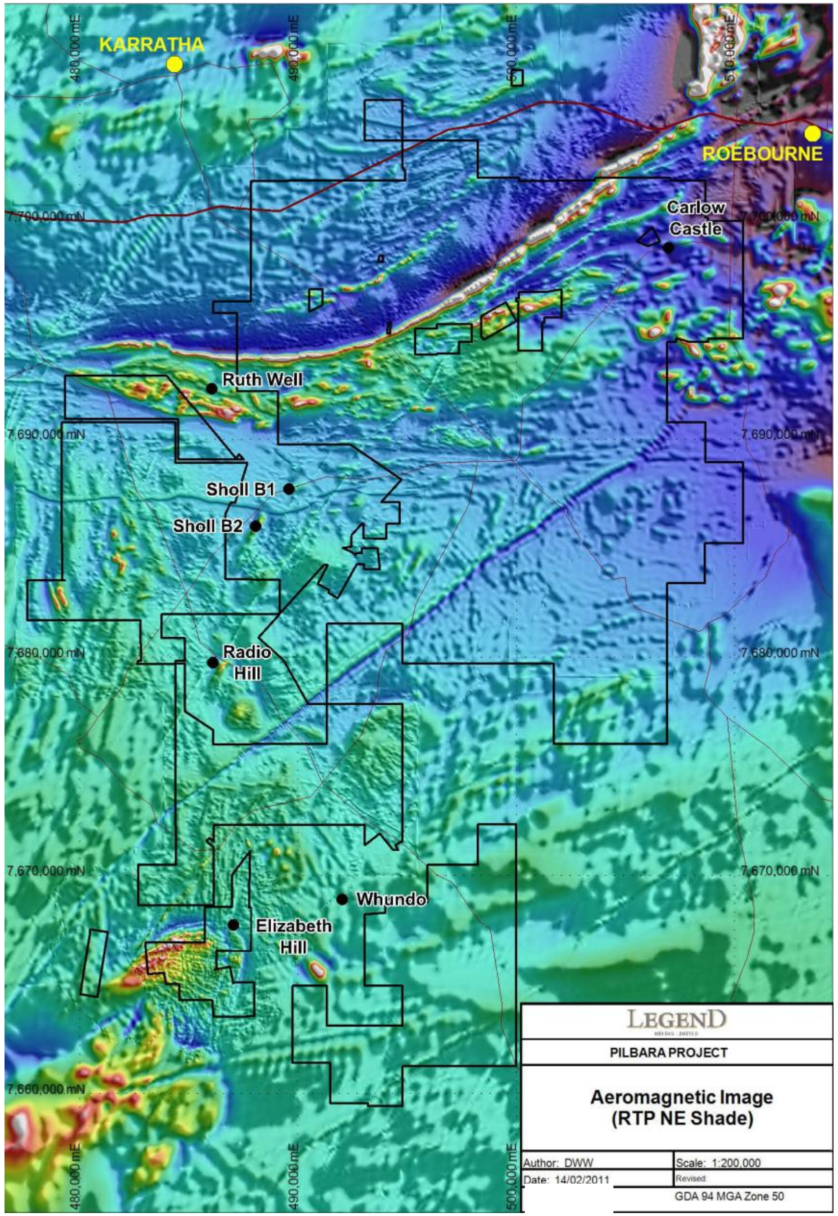
New West Pilbara Projects

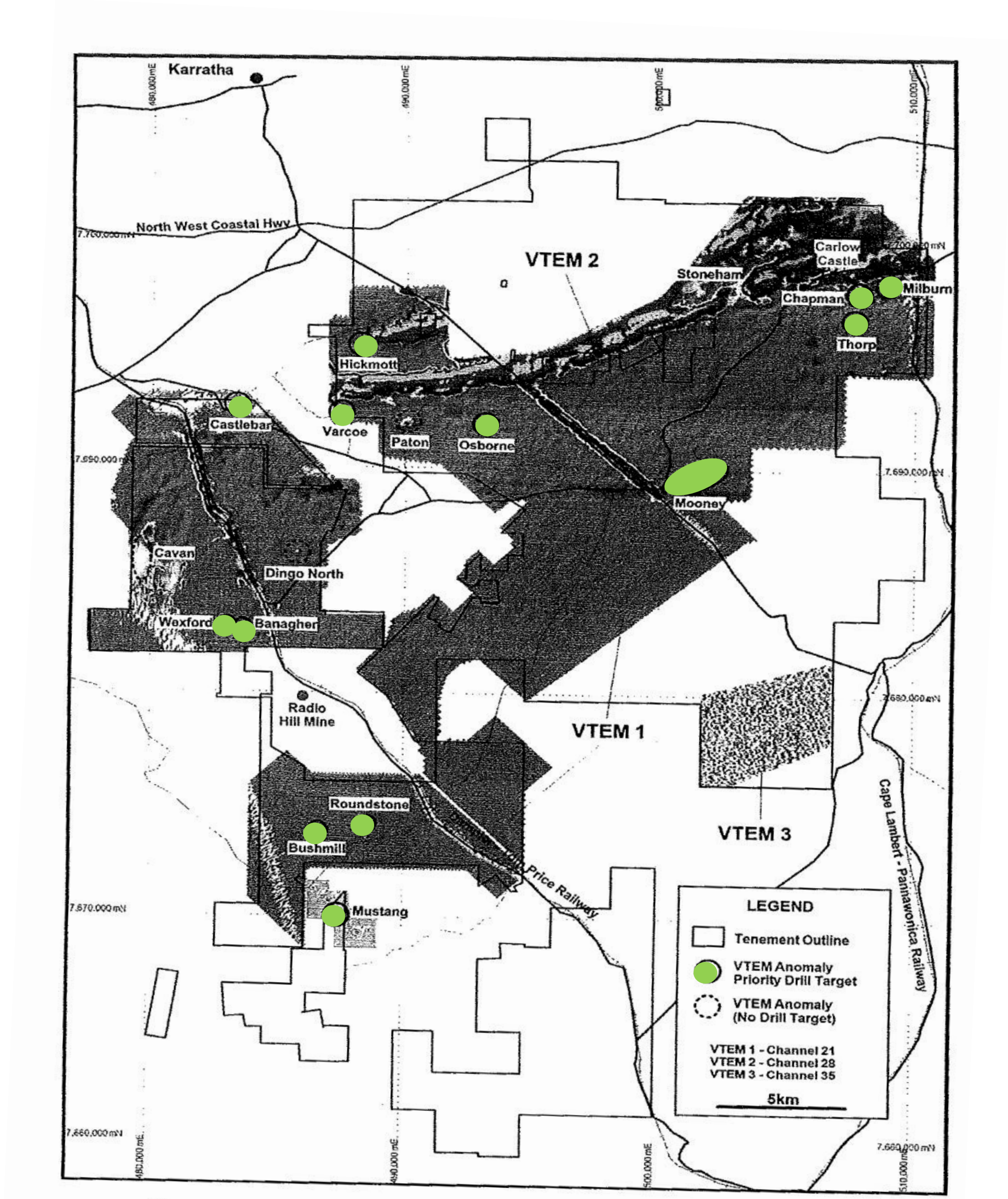




Artemis RESOURCES

West Pilbara Projects – Aeromag and VTEM Priority Targets





Pilbara Project Showing VTEM Image and Priority Targets

West Pilbara – Major Projects

Key projects in the West Pilbara portfolio:

CARLOW CASTLE

- Contains a JORC Inferred Resource of 91,000 tonnes at 10 g/t Au and 1.4% Cu
- Considerable potential to increase the size of the current delineated mineralisation
- North West Coastal Highway passing within 2 kms to the north of project
- Underexplored - deeper drilling required to test continuity and extent of mineralisation at depth

MT SHOLL

- Cleaverville Formation in the Mt Sholl, Carlow Castle and Mt Marie Projects - potential source of magnetite iron ore.
- 1.6 billion tonne Cape Lambert magnetite iron ore deposit, 8km NW of Roebourne, is hosted by Cleaverville Formation.
- 2 principal areas of known mineralisation - Golden Reef (substantial quantities of alluvial gold since 1987) and Orpheus Shear Zone (copper-lead-zinc), (Dragon discovery 1995), largely untested.

NICKOL RIVER GOLD PROJECT

- Historical production from 4 localities – Tozer's, Boiler, Nickol South and Lydia.
- Recent auger drilling identified anomalous gold up to 6.3g/t Au
- Considerable potential for discovery of additional gold mineralisation in areas beneath shallow historical drilling.

West Pilbara – Major Projects

MT MARIE PROJECT

- Hosts BIF units of the Cleaverville Formation – a potential source of magnetite iron ore.
- Potential for gold, copper, zinc, silver and nickel.
- Substantial part of project area previously held as a Government Temporary Reserve (alternative Karratha airport site) and was not available for exploration.

TWIN TABLE HILLS PROJECT

- Considered to have potential to host massive nickel-copper sulphide mineralisation similar to Radio Hill and Ruth Well.
- The Twin Table Hills potential for iron mineralisation

RADIO HILL WEST PROJECT

- Less than 2 kms north of the Radio Hill nickel mine.
- Considerable potential for the discovery of Radio Hill type massive sulphide mineralisation.
- Karratha to further evaluate nickel-copper-PGE mineralisation at the Little Dingo and Toorare Pool prospects.

ARV - West Pilbara Tenements

- ✓Artemis has a significant position in the West Pilbara
- ✓One of the largest West Pilbara tenement holdings – 41 prospective tenements covering 667sq km
- ✓Pilbara assets contain prospective copper, iron ore and nickel targets
- ✓Gold projects: JORC Inf Resource 91,000t @ 10g/t Au, exploration target 250–500koz at 5-10g/t Au
- ✓Projects close to infrastructure and processing facilities
- ✓Consolidation opportunity with potential to support a processing mill

The Company's Exploration Target includes potential quantity and grade and is conceptual in nature. There has been insufficient exploration to define these mineral resources and it is uncertain if further exploration will result in the determination of mineral resources.

Artemis RESOURCES

ARTEMIS RESOURCES 2013 Project Plan

Gold – Yandal

- Prioritise and drill key geophysical targets (47 identified – 19 drilled to date)
- Follow-up and Infill Stage 2 RC drilling + some diamond coring at Lowlands to upgrade the gold resource to a JORC compliant Resource
- Additional drilling of prospective targets generated by Stage 1 (2012) drilling
- Upgrade to JORC Compliant Resource at Lowlands later in 2013
- Initial target 250,000 to 500,000 oz gold

Copper, Nickel, Gold – West Pilbara

- Finalise comprehensive review to identify priority targets
- Complete Aboriginal Heritage agreements to enable access
- Explore possible opportunities for joint venture and funding partners

Antimony-Lead – Eastern Hills

- Field sampling and mapping
- RC drilling to confirm historic pre-JORC resource and convert to JORC standard
- RC drilling to expand resource
- Work towards scoping study by end 2013

Gold – Mt Clement

Define extensions of high grade zone for Phase 3 drilling; Electro-magnetics (VTEM, Smartem)

- Field mapping and rock sampling covering the entire project area
- Assess and review data and generate new local and regional targets
- Undertake planning for drill testing of most promising targets aimed at defining 250,000 to 500,000 oz Au eq. resource

Artemis RESOURCES

Strategy Overview

Short/Medium Term

- Build first class in house team to drive projects (underway – exploration geologist employed)
- Field reconnaissance over new Eastern Hills exploration target
- Drill antimony-lead targets at Eastern Hills (2Q13)
- Stage 2 drilling of Yandal gold targets and define JORC compliant gold resource (mid 2013)
- Establish dominant position in Yandal (new applications in train)
- Field reconnaissance and prioritise most promising targets at West Pilbara
- Leverage dominant position to secure other opportunities

Medium/Long Term

- Advance Eastern Hills project quickly to scoping study and possible PFS in 2014
- Execute aggressive exploration program
- Actively source high quality new project opportunities that will advance Artemis up the value curve

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