OVERVIEW

- Mineral exploration expenditure (non-petroleum) was $3055.3 million for the 2012–13 financial year.
- Exploration spending in the search for new mineralisation in greenfield districts was $1018.4 million and spending in brownfields districts was $2037.1 million.
- Western Australia dominated Australian exploration spending with 58% of total expenditure followed by Queensland with 22%.
- Exploration drilling results and resource updates were announced for many different projects and commodities across Australia.
- Maiden resources were announced for a variety of commodities.
- New exploration initiatives were announced by Australian, State and Territory Governments to support mineral exploration in Australia.

EXPLORATION EXPENDITURE REVIEW

- Mineral exploration expenditure (non-petroleum) for the 2012–13 financial year was $3055.3 million.
- Exploration expenditure in and around known deposits (brownfields) was $2037.1 million and expenditure for undiscovered mineralisation in frontier regions (greenfields) was $1018.4 million. Brownfields drilling totalled 5 691 000 m and greenfields drilling totalled 2 729 000 m.
- Exploration expenditure by jurisdiction in 2012–13 was: Western Australia $1763.4 million, Queensland $663.6 million, South Australia $230.4 million, New South Wales $187.3 million, Northern Territory $131.7 million, Tasmania $40.4 million and Victoria $38.5 million.
- Exploration spending by commodity in 2012–13 was: iron ore $1011.3 million, gold $661.8 million, base metals, copper, cobalt and nickel $563.7 million, coal $544.0 million, uranium $69.5 million, and spending associated with minor commodities, such as manganese, molybdenum, phosphate, tin, tungsten and vanadium $161.2 million.

SELECTED EXPLORATION RESULTS 2013

Exploration results over the period 1 January 2013 to 31 December 2013 have been selected from publicly available information sources, based on their likely future significance for the Australian exploration and mining industries. The results are listed by commodity in alphabetical order: base metals and silver, copper (including copper-gold), gold, graphite, iron ore, manganese, nickel and cobalt, potash, rare earth elements, tin, tungsten, uranium and vanadium. For each commodity, the results are presented in alphabetical order of States and the Northern Territory. The locations of the exploration projects are shown in the figures. Exploration projects discussed in the text with significant drill hole intersections or maiden mineral resources are also identified in the centrefold map.

GEOSCIENCE AUSTRALIA INITIATIVES

Geoscience Australia, in collaboration with the State and Northern Territory geological surveys and the research community, will seek to reveal the hidden potential of Australia’s buried but prospective geology. The work will involve the acquisition, processing, interpretation and delivery of new pre-competitive geoscience data sets that develop and test geological models and key indicators of mineral resource potential in the subsurface. Geoscience Australia is leading two drilling projects in 2013–14 in conjunction with State Governments. One project, the Stavely Zone Drilling Project, in western Victoria, will be carried out in conjunction with the Geological Survey of Victoria. The second project, the Southern Thomson Orogen Project, is around the border of Queensland and New South Wales (NSW) working with both the Geological Survey of Queensland (GSQ) and the Geological Survey of NSW.


**BASE METALS AND SILVER**

**New South Wales**

Forge Resources Ltd and Ironbark Zinc Ltd announced that several zones of mineralisation have been intercepted in a drill hole at Jerangle prospect located 50 km southeast of Canberra. Broad sulphide mineralisation was encountered and remains open in every direction. Results include:

- 2.6 m @ 10 g/t Ag, 0.2% Cu and 6% Pb + Zn
- 5 m @ 4.2 g/t Ag, 0.13% Cu and 4.6% Pb + Zn

Silver Mines Ltd reported on drilling at their Webbs Silver project in north-eastern NSW. All holes drilled intersected lode style alteration and mineralisation. Results include:

- 3.8 m @ 575 g/t Ag, 0.49% Cu, 0.76% Pb and 3.09% Zn (including 0.7 m @ 1170 g/t Ag, 1.25% Cu, 2.55% Pb and 6.57% Zn)

Silver City Minerals Ltd announced it has received results for reverse circulation (RC) drill holes from its Stephens Trig projects located 15 km north of Broken Hill. Drilling confirms mineralisation in prospective 10 to 20 m thick lode rock sequences. Results include:

- 2 m @ 1.2% Zn, 4.0% Pb and 8 g/t Ag
- 4 m @ 1.7% Zn, 1.2% Pb and 3 g/t Ag
- 5 m @ 2.2% Zn, 2.1% Pb and 20 g/t Ag (including 1 m @ 5.4% Zn, 7.5% Pb and 72 g/t Ag)

TriAusMin Ltd announced additional high-grade base and precious metal results from a completed drilling program on its 100% owned Woodlawn deposit 40 km south of Goulburn. A down-hole electromagnetic (DHEM) survey has also identified a number of previously untested geophysical conductors in close proximity to the existing high-grade Woodlawn deposit which are believed to indicate the presence of sulphide mineralisation. Drill results included:

- 3 m @ 10.3% Zn, 0.5% Cu, 0.3% Pb, 30 g/t Ag and 0.9 g/t Au

White Rock Minerals Ltd has received final assay results from recent infill drilling at the White Rock silver deposit on the Mt Carrington gold-silver project in northern New South Wales. The fresh assays confirm broad silver zones from surface. Highlights include:

- 110 m @ 61 g/t Ag (including 36 m @ 100 g/t Ag)
- 113 m @ 44 g/t Ag (including 3.8 m @ 384 g/t Ag)

**Northern Territory**

Core Exploration Ltd reported on high grade results of 2.2 kg/t (2200 g/t) Ag and 10% Cu at surface from first reconnaissance mapping and surface rock-chip sampling at the Blueys prospect within the company’s Alberta project.

Kidman Resources Ltd announced results from further drill holes from Conductor 1, the new massive sulphide zone identified east of the Southern Lens at the Home of Bullion. A total of 39 RC drill holes for 5000 m were completed. The following results were achieved from the three drill holes received:

- 36 m @ 2.78% Cu, 0.9% Pb, 2.3% Zn, 27.6 g/t Ag, and 0.2 g/t (including 10 m @ 8.5% Cu, 0.6% Pb, 4.35% Zn, 40.9 g/t Ag, 0.16 g/t Au)
- 11 m @ 2% Cu, 0.66% Pb, 2.6% Zn and 22.1 g/t Ag (including 5 m @ 2.9% Cu, 0.8% Pb, 2.9% Zn, 26.7 g/t Ag)
- 1 m @ 1.09% Cu, 0.01% Pb, 0.23% Zn and 3 g/t Ag
Table 1: A selection of Australian mineral discoveries since 2004

<table>
<thead>
<tr>
<th>Year</th>
<th>State</th>
<th>Deposit/Project</th>
<th>Commodities</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>WA</td>
<td>Oxley</td>
<td>Potash</td>
<td>Exploration; July 2013 drill result: 72 m @ 8.53% K₂O</td>
</tr>
<tr>
<td>2012</td>
<td>WA</td>
<td>Jury-Metcalfe</td>
<td>Ni</td>
<td>Exploration; March 2013 Maiden resource: 323,000 t @ 1.98% Ni for 6,395 t Ni</td>
</tr>
<tr>
<td>2012</td>
<td>NSW</td>
<td>Mallee Bull</td>
<td>Cu, Ag, Au</td>
<td>Exploration; March 2013 drill result: 53 m @ 4.08% Cu, 42 g/t Ag, 0.22 g/t Au</td>
</tr>
<tr>
<td>2012</td>
<td>WA</td>
<td>Dampier</td>
<td>Mineral sands</td>
<td>Exploration; September 2012 drill result: 33 m @ 6.3% HM</td>
</tr>
<tr>
<td>2012</td>
<td>WA</td>
<td>Nova</td>
<td>Ni, Cu</td>
<td>Exploration; May 2013 Maiden resource: 10.2 Mt @ 2.4% Ni, 10% Cu and 0.08% Co</td>
</tr>
<tr>
<td>2010</td>
<td>NT</td>
<td>Barrow Creek</td>
<td>P</td>
<td>Feasibility study; January 2013 resource: 238 Mt @ 14.6% P₂O₅</td>
</tr>
<tr>
<td>2010</td>
<td>SA</td>
<td>Maldorky</td>
<td>Fe</td>
<td>Advanced exploration; December 2011 resource: 147 Mt @ 30.1% Fe</td>
</tr>
<tr>
<td>2009</td>
<td>WA</td>
<td>DeGrussa</td>
<td>Cu, Au, Ag</td>
<td>Operating mine 2011; November 2012 resource: 11.91 Mt @ 5.3% Cu, 1.8 g/t Au</td>
</tr>
<tr>
<td>2008</td>
<td>NT</td>
<td>Mount Peak</td>
<td>V, Fe, Ti</td>
<td>Feasibility study; resource: 160 Mt @ 0.3% V₂O₅, 5.0% TiO₂ and 23% Fe</td>
</tr>
<tr>
<td>2008</td>
<td>WA</td>
<td>Bentley</td>
<td>Cu, Pb, Zn, Ag, Au</td>
<td>Developing mine; November 2010 resource: 3.05 Mt @ 2.0% Cu, 9.8% Zn, 0.6% Pb, 139 g/t Ag, 0.7 g/t Au</td>
</tr>
<tr>
<td>2008</td>
<td>QLD</td>
<td>Merlin</td>
<td>Mo, Re</td>
<td>Exploration; August 2010 resource: 6.7 Mt @ 1.34% Mo, 23.2 g/t Re</td>
</tr>
<tr>
<td>2008</td>
<td>VIC</td>
<td>Stavely</td>
<td>Cu, Pb, Zn, Ag, Au</td>
<td>Exploration; June 2010 resource: 480,300 t Cu</td>
</tr>
<tr>
<td>2008</td>
<td>VIC</td>
<td>Chewton</td>
<td>Au</td>
<td>Exploration; June 2008 resource: 0.57 Moz Au</td>
</tr>
<tr>
<td>2007</td>
<td>WA</td>
<td>Cyclone</td>
<td>Mineral sands</td>
<td>Exploration; October 2010 resource: 132 Mt @ 2.33% HM; part of Eucla Basin Heavy Mineral Sand project</td>
</tr>
<tr>
<td>2007</td>
<td>SA</td>
<td>Dromedary</td>
<td>Mineral sands</td>
<td>Exploration; part of Eucla Basin Heavy Mineral Sand project</td>
</tr>
<tr>
<td>2007</td>
<td>WA</td>
<td>Spotted Quill</td>
<td>Ni</td>
<td>Mine; December 2010 resource: 1806,000 t @ 5.99% Ni for 108,120 t Ni</td>
</tr>
<tr>
<td>2006</td>
<td>QLD</td>
<td>Rocklands</td>
<td>Cu</td>
<td>Feasibility study; September 2010 resource: 0.51 Mt Cu, 43,160 t Co, 0.34 Moz Au</td>
</tr>
<tr>
<td>2006</td>
<td>WA</td>
<td>Cooljarroo North</td>
<td>Mineral sands</td>
<td>Scoping study completed; resource: 260 Mt @ 2.4% HM</td>
</tr>
<tr>
<td>2006</td>
<td>NSW</td>
<td>McPhiliamys</td>
<td>Au</td>
<td>Feasibility study; July 2010 resource: 3 Mozs Au, 81,000 t Cu</td>
</tr>
<tr>
<td>2006</td>
<td>QLD</td>
<td>Mount Carleton</td>
<td>Au, Ag, Cu</td>
<td>Feasibility study; October 2009 resource: 22.8 Mt @ 1.60 g/t Au, 51 g/t Ag, 0.3% Cu</td>
</tr>
<tr>
<td>2006</td>
<td>SA</td>
<td>Gullivers</td>
<td>Mineral sands</td>
<td>Exploration; Part of Eucla Basin Heavy Mineral Sand project</td>
</tr>
<tr>
<td>2005</td>
<td>WA</td>
<td>Callwingina</td>
<td>Fe</td>
<td>Exploration; November 2010 resource: 1540 Mt @ 57.25% Fe; Channel Iron Deposit and Detrital ore; Pilbara Region</td>
</tr>
<tr>
<td>2005</td>
<td>SA</td>
<td>Carrapateena</td>
<td>Cu, Au</td>
<td>Exploration; 905 m @ 2.17% Cu, 0.9 g/t Au, 11.5 g/t Ag</td>
</tr>
<tr>
<td>2005</td>
<td>SA</td>
<td>Tripitaka</td>
<td>Mineral sands</td>
<td>Feasibility study; September 2006 resource: 28 Mt @ 2.3% HM</td>
</tr>
<tr>
<td>2005</td>
<td>SA</td>
<td>Four Mile</td>
<td>U</td>
<td>Decision to mine Four Mile West; January 2010 resource: 5.7 Mt @ 0.34% U₃O₈</td>
</tr>
<tr>
<td>2005</td>
<td>WA</td>
<td>Tropicana</td>
<td>Au</td>
<td>Feasibility studies; December 2009 resource: 5.01 Mozs Au</td>
</tr>
<tr>
<td>2004</td>
<td>SA</td>
<td>Jacinth &amp; Ambrosia</td>
<td>Mineral sands</td>
<td>Mine; December 2007 resource: 239 Mt @ 4.0% HM</td>
</tr>
<tr>
<td>2004</td>
<td>WA</td>
<td>Trident</td>
<td>Au</td>
<td>Mine; January 2010 resource: 0.9 Mozs Au</td>
</tr>
<tr>
<td>2004 and later</td>
<td>WA</td>
<td>Alec Mairs orebodies</td>
<td>Ni</td>
<td>Mine with production from AM1 orebody</td>
</tr>
</tbody>
</table>

Mt = million tonnes, t = tonnes, Mozs = million ounces, HM = heavy minerals
STATE AND TERRITORY GOVERNMENT INITIATIVES SUPPORTING MINERAL EXPLORATION

Northern Territory

Northern Territory Government’s seven year (2007–2014), $25.8 million BRINGING FORWARD DISCOVERY initiative is designed to highlight and promote the Territory’s under-explored mineral and petroleum potential. Bringing Forward Discovery includes extensive regional gravity surveys and field-based geological mapping and prospectivity assessments, with an emphasis on under-explored greenfields regions such as the Arunta region and Amadeus Basin in central Australia. The initiative also provides funding for collaborative drilling with explorers, along with collaborative funding for regional-scale geophysical surveys and improving web-based delivery of information. www.minerals.nt.gov.au/ntgs

Western Australia

The Western Australian government is investing $131 million in the 2009–17 Exploration Incentive Scheme (EIS) to encourage resource discoveries in greenfield areas. The EIS has resulted in the completion of the State’s coverage of airborne magnetic and radiometric surveys, and in 2013–14 continues to co-fund innovative exploration drilling by companies in under-explored areas, and gravity, magnetotelluric and deep seismic lines. Also in 2013–14, the EIS is funding a large $2.4 million airborne electromagnetic survey in the greenfields Capricorn Orogen as part of a four year major collaborative geoscience program supporting the UNCOVER initiative with CSIRO, the University of Western Australia, Curtin University and industry.

www.dmp.wa.gov.au

South Australia

South Australia’s PACE (Plan for Accelerating Exploration) Initiative continues to provide the foundation of pre-competitive geoscience initiatives in the State. In 2012–13 this included a further $2 million for Gawler Craton pre-competitive data, with a special focus on the Woomera Prohibited Area (WPA). This funding has supported the acquisition and release of the eastern WPA gravity survey, which includes over 34,000 gravity stations on a 1x1 and 2x2 km grid across large parts of the highly IOCG prospective north-eastern part of the Gawler Craton. This survey has conducted in partnership with Department of Defence and Geoscience Australia. The $4 million PACE FRONTIERS was also announced this year and will provide additional support for 2013–14 and 2014–15 years. The focus of this initiative has been within the deep cover exploration frontiers of the eastern Gawler Craton and the western Gawler Craton—Eucla Basin. The eastern Gawler Craton program will culminate in a regional mineral system drilling program in 2015 in collaboration with DET CRC. In the western Gawler Craton—Eucla Basin a deep crustal seismic program (in partnership with Geoscience Australia and AusScope) extending eastwards along the transcontinental railway line is underway and will be followed by regional magnetotellurics, airborne magnetic and radiometrics and regional geochemistry.

Queensland

The Queensland Government has allocated $30 million for 2013–16 to the Geological Survey of Queensland (GSQ) for the Future Resources Program. Initiatives being undertaken in 2013–14 involve geochemical data extraction, seismic section scanning, predevelopment for a core library extension and GSQ projects proposed by industry. In 2013–14, these include the prospectivity of magmatic-related systems in north Queensland, a magnetotelluric survey and a spinifex biogeochemistry study in north-west Queensland, and an assessment of the petroleum and gas potential of the lowermost strata of the Maryborough and Galilee basins. Initiatives of the 2010–14 $18 million Greenfields 2020 Program being undertaken in 2013–14 include a deep seismic and magnetotelluric survey in north-west Queensland, and gold and strategic metals projects in north Queensland. [www.mines.industry.qld.gov.au](http://www.mines.industry.qld.gov.au)

New South Wales

The New Frontiers initiative is an exploration enhancement to further stimulate mineral and petroleum investment in under-explored terranes. Since 2012, the initiative has been funded by mineral and petroleum annual rental fees, providing continuity and direct application of the funding to the needs of industry. The work program mainly focuses on the acquisition and value-adding of regional pre-competitive geoscience, including geophysical surveys, geological mapping, and mineral system studies, as well as improving the data management framework to store and deliver quality information in an easy and efficient manner. [www.resources.nsw.gov.au/geological/initiatives/new-frontiers](http://www.resources.nsw.gov.au/geological/initiatives/new-frontiers)

Victoria

Strengthening Victoria’s Earth Resources Sector is a four year $19 million initiative that will support competitive and sustainable development of Victoria’s mineral resources and lead a whole of government industry attraction campaign to promote Victoria as an investment destination. Through this initiative the Government will deliver key actions in response to the Economic Development and Infrastructure inquiry into greenfields mineral exploration and project development in Victoria by establishing a program for future development of the State’s valuable earth resources. This will include improved packaging of geoscience information that will highlight current opportunities to invest in the State and the delivery of a new pre-competitive regional scale geological data program to help identify new resources. The initiative will also include a regulatory reform program which will see improved approval processes, the development of new guidelines for water and environment protection and improved systems for identifying and addressing barriers to project approvals. Underpinning this initiative will be a community engagement program that will improve the accessibility and delivery of information to communities. This program aims to increase community confidence in the responsible management and development of the State’s earth resources and the role they play in ensuring Victoria’s long-term prosperity. [www.energyandresources.vic.gov.au/earth-resources](http://www.energyandresources.vic.gov.au/earth-resources)

Tasmania

The Western Tasmania Geoscience Initiative is a three year (2011–2014) program that was designed to produce new data and interpretations to assist with exploration in this highly mineralised region. Projects include the geological mapping of four 1:25,000 map sheets, the collection of LiDAR, to assist with the geological mapping, new gravity and airborne magnetic data, to infill gaps in existing coverage, and geochronological and structural studies. All of this new information is being made available online, through the TIGER database, and is being used to update the existing 3D geological model of three areas of western and northern Tasmania. [www.mrt.tas.gov.au](http://www.mrt.tas.gov.au)
TNG Ltd reported further strong results from diamond drilling at its 100% owned Mount Hardy project, with the latest batch of assays including the best intersection seen to date. The drilling program has now been completed, comprising a total of 2814 m in 15 holes with RC pre-collars drilled for four holes for approximately 600 m. The remainder, including all mineralised intervals, were drilled with a diamond drill rig. All logging and sampling has now been completed and samples submitted for analysis. Results include:

- 13.0 m @ 1.17% Cu and 1.82% Zn (including 1 m @ 3.86% Cu, 11.75% Zn, 2.09% Pb)
- 1.0 m @ 9.44 g/t Au

Queensland

### MAIDEN RESOURCE
RMG Ltd announced a Maiden Inferred Resource at their Kamarga project for the first 650 m strike length of the JB deposit of:

- 10.4 million tonnes @ 2.7% Zn, 0.2% Pb, 1 g/t Ag at a 1.5% Zn cut-off grade, with 277 000 tonnes of contained Zn, including 2.6 million tonnes @ 4.4% Ag, 0.3% Pb at a 3% Zn cut-off grade

South Australia

Core Exploration Ltd announced new high-grade silver, lead and zinc rock chip assays from the Yerelina project of up to 567 g/t Ag and 15.11% combined Pb and Zn assays from sampling of old workings and newly discovered gossans in an area adjacent to the company’s Fitton project in northern South Australia. Core’s latest mapping campaign has discovered high-grade silver, lead and zinc mineralisation extending over 1 km away from historical workings. The Yerelina project is highly prospective for shallow base and precious metal mineralisation as evidenced by high-grade mineralisation on five separate north-south structures.

Investigator Resources Ltd announced positive progress for the drilling program at the company’s Paris Silver project. Drilling has commenced at a closer spacing and with new drill hole orientations in areas of high grade silver intersections. New drill results also confirmed the Paris prospect is open to the north and south of the 1.1 km long trend drilled to date. Results include:

- 4.6 m @ 1557 g/t Ag

Musgrave Minerals Ltd provided an update from their Menninnie Dam project in the southern Gawler Craton region. A drilling program of six RC drill holes and a single diamond hole at Tank Hill has returned encouraging assay results. Current interpretation suggests the true width of the mineralisation will be approximately 70–80% of the intersection widths. Mineralisation remains open to the northwest. The drill hole intersected:

- 22 m @ 0.7% Zn, 0.4% Pb, 44 g/t Ag, 0.09 g/t Au (including 2 m @ 4.2% Zn, 0.9% Pb, 267 g/t Ag, 0.44 g/t Au)

Victoria

Independence Group NL provided assay results from a diamond drill hole 100% owned Stockman project. The Eureka discovery is located approximately 350 m to the north east of Currawong, immediately along strike and beneath Bigfoot and appears to sit in the same stratigraphic position as the main massive sulphide lens at Currawong. Assay results returned:

- 22.65 m @ 1.2% Cu, 3.9% Zn, 43 g/t Ag and 1.3 g/t Au

Western Australia

### MAIDEN RESOURCE
Artemis Resources Ltd announced its Maiden Mineral Resource for the Eastern Hills project located in the Ashburton region of Western Australia. The combined Indicated and Inferred resource comprises:

- 1.3 million tonnes @ 1.7% Sb and 2.5% Pb

Cazaly Resources Ltd reported on assays from its second RC drilling program over the Mt Angelo North prospect at the Halls Creek Copper project, located in the Kimberley region. Drilling was aimed at testing the immediate southern extensions of the deposit, confirming results from historic drilling, infill drilling and testing geophysical targets. Mineralisation comprises massive and stringer copper sulphides, principally chalcocite and chalcopyrite, characteristic of volcanic massive sulphide (VMS) mineralisation. The deposit also contains appreciable zinc and silver with subordinate gold and lead. Better results include:

- 35 m @ 3.15% Copper Equivalent (CuEq) 2.84% Cu, 0.87% Zn, 27 g/t Ag (including 15 m @ 5.00% CuEq)
- 35 m @ 2.51% (CuEq) 1.41% Cu, 4.14% Zn, 16 g/t Ag (including 21 m @ 3.51% CuEq)

Pegasus Metals Ltd advised that the South Limb Pod target at its Mt Mulcahy project in WA, located 50 km north of Cue in the Murchison Region, is emerging as a significant VMS discovery hosting high-grade copper with zinc, silver and gold. South Limb Pod target has now been outlined over a down-dip extent of ~200 m. Significant intercepts from the latest drilling include:

- 2.1 m @ 3.68% Cu, 3.42% Zn, 26.2 g/t Ag and 0.15 g/t Au
- 3.45 m @ 2.45% Cu, 3.48% Zn, 25.6 g/t Ag and 0.14 g/t Au
- 2.5 m @ 2.60% Cu, 2.30% Zn, 21.9 g/t Ag and 0.10 g/t Au
Venturex Resources Ltd provided an update on an RC drilling program at the Kangaroo Caves prospect in the Pilbara region. The program intersected significant zinc-copper mineralisation. Results include:

- 15 m @ 0.30% Cu, 6.99% Zn, 0.21% Pb, 31.5 g/t Ag and 0.12 g/t Au
- 6 m @ 0.62% Cu, 9.30% Zn, 0.19% Pb, 7.3 g/t Ag and 0.06 g/t Au
- 6 m @ 0.09% Cu, 4.89% Zn, 0.09% Pb, 5.1 g/t Ag and 0.02 g/t Au

**COPPER (INCLUDING COPPER-GOLD)**

**New South Wales**

Ironbark Zinc Ltd announced high-grade gold and copper rock chip results from its 100% owned Fiery Creek and Macanally prospects at the Peakview project. The results come from 54 rock chip samples that were taken from around the historical workings at the Fiery Creek and Macanally prospects during a recent follow-up mapping campaign. The extensive rock chip sampling program returned spectacular results, with grades returned of up to 253.0 g/t Au and 14.9% Cu.

Peel Mining Ltd advised that a drill hole at Mallee Bull prospect that was designed to test a strong DHEM conductor and the presumed down-dip position of strong mineralisation has intercepted the highest grade mineralisation to date, returning:

- 84 m @ 4.42% Cu, 38 g/t Ag and 0.14 g/t Au

**Northern Territory**

Emmerson Resources Ltd reported that the thickest copper intersections encountered to date at the Goanna discovery near Tennant Creek have been found in the latest drilling. The results, which include multiple, high-grade copper intersections, elevated bismuth and gold values, are evidence of a substantial copper discovery with very strong potential for a significant gold component at depth. The latest Goanna drilling intersected a continuous 99 m zone averaging 0.43% copper with multiple higher grade zones. Drill results include:

- 99 m @ 0.43% Cu (including 6 m @ 1.7% Cu)

This drill hole also intersected a new zone of gold-copper with elevated bismuth of:

- 9 m @ 1.71 g/t Au, 0.44% Cu and 0.15% Bi (including 3 m @ 3.22 g/t Au, 0.4% Cu and 0.37% Bi)

KGL Resources Ltd announced results from an exploration drilling program at the Jervois Copper-Silver-Gold project in the Northern Territory. The 2000 m drilling campaign intersected copper at the targeted Rockface and Morley prospects, the results including significant high-grade, near-surface intervals and the presence of copper in a 2 km long IP anomaly. Drill results include:

- 9 m @ 1.21% Cu, 4.1 g/t Ag, 0.03 g/t Au
- 24 m @ 1.47% Cu, 3.5 g/t Ag, 0.04 g/t Au

Transol Corporation Ltd announced that it has discovered a large anomalous zone of gold-copper mineralisation immediately north of the main Johnnies Reward prospect, located 75 km north-east of Alice Springs. The gold-copper anomaly was outlined by an extensive soil sampling program comprising a total of 394 samples. The program was designed to cover the area of higher magnetic response outlined by a regional magnetic survey. The results highlight an anomalous northwest – southeast trending corridor of +50 ppb Au and +25 ppm Cu located 1.5 km north of Johnnies Reward. The main anomaly, named the Black Angus prospect, is 300 m long and 180 m wide and occurs on the eastern edge of the grid with a peak value of 84 ppb.

**Queensland**

Aeon Metals Ltd reported on a drilling program at their 7B project. The program consisted of 27 holes that have been drilled for 2464 m. Drill results show significant copper grade mineralisation from surface. Recent results include:

- 9 m @ 0.43% Cu, 0.1 g/t Au and 2.4 g/t Ag (including 4 m @ 0.70% Cu, 0.1 g/t Au and 3.9 g/t Ag)
- 22 m @ 0.49% Cu, 0.1 g/t Au and 6.2 g/t Ag (including 7 m @ 0.80% Cu, 0.1 g/t Au and 10.4 g/t Ag)

Chinalco Yunnan Copper Resources Ltd announced the intersection of broad near-surface copper sulphide mineralisation from its first pass diamond drill program at the Blue Caesar prospect. The drilling targeted coincidental geochemical, geophysical and surface mineralisation. Drilling has intersected multiple zones of mainly stringer and disseminated copper sulphide mineralisation with pods of semi-massive to massive copper sulphide mineralisation occurring from 27 m down hole depth (~20 m vertical depth from surface). The results are highlighted by:

- 8 m @ 3.23% Cu (including 1 m @ 17.3% Cu)

Monto Minerals Ltd announced laboratory results from an RC drill hole targeting the Zig Zag magnetic bullseye anomaly within the broader Mt Ormonde area. The hole was abandoned at 75 m after encountering two zones of undocumented workings. Significant results include:

- 69 m @ 0.20% Cu (to end of hole)
- 75 m @ 2.2 g/t Ag (to end of hole)
- 3 m @ 0.12% Sn

**South Australia**

Oz Minerals Ltd reported on drill targeting a gravity-magnetic feature from their Khamsin prospect located near Woomera in the Gawler Craton. Results are the best to date from this project and include:

- 34 m @ 1.61% Cu and 0.40 g/t Au
- 334 m @ 0.75% Cu and 0.23 g/t Au

Renaissance Uranium announced that recently received assays from its first-pass RC drilling program within its Eastern Eyre project have resulted in the identification of
a major new copper-cobalt-silver zone within the 1050 East prospect area. Mineralisation is hosted in pervasive alteration zones in mid-Proterozoic metasediments with strongly anomalous rare earth element (REE) and weakly elevated uranium geochemistry, suggesting a possible association with an iron-oxide copper-gold style system typical of deposits located within the Olympic Dam belt. Broad mineralised intervals were intersected in three holes at 1050 East, with results including:

- 44 m @ 0.61% Cu, 311 ppm Co and 24 ppm Ag (including 2 m @ 3.5% Cu, 273 ppm Co and 142 ppm Ag)

**MAIDEN RESOURCE**

Rex Minerals Ltd announced a Maiden open pit ore reserve for its 100% owned Hillside project on the Yorke Peninsula, in South Australia. The Probable Ore Reserve stands at:

- 120 million tonnes @ 0.53% Cu, 0.14 g/t Au and 12.8% Fe for contained metal of 636,000 tonnes of Cu, 540,000 ounces of Au and 14.5 million tonnes of Fe ore

**Tasmania**

Jaguar Minerals Ltd announced results from further drilling at the South Darwin prospect at the Mt Jukes project in Tasmania. Drilling was undertaken late last year and totalled 748 m following up encouraging results from previous drilling. The highest result from the recent round of drilling is

- 50 m @ 0.4% Cu and 0.16 g/t Au (including 13m @ 1.2% Cu and 0.45 g/t Au) and 30 m @ approximately 2% total rare earth oxides (TREO)

**Victoria**

Navarre Minerals Ltd announced results from recently completed drilling at its 100% owned Eclipse prospect, located 300 km north-west of Melbourne. The trial program of 20 shallow air-core (AC) and RC drill holes, designed to test a conceptual large tonnage porphyry-style copper-gold target at Eclipse. The program has identified multiple broad zones of porphyry-style mineralisation recorded, with results including:

- 7.5 m @ 0.66 g/t gold equivalent (AuEq), (0.41% Cu and 0.4 g/t Ag)
- 13.5 m @ 0.57 g/t AuEq (3.1 g/t Ag, 0.32 g/t Au and 0.40% Zn)
- 25.5 m @ 0.37 g/t AuEq (0.18% Cu, 0.40 g/t Ag and 0.1 g/t Au)

**Western Australia**

Hazelwood Resources Ltd announced encouraging results from its first drilling at Copper Gorge located near Nullagine in the East Pilbara. The single diamond drill hole was designed to test a prominent HOISTEM anomaly at Copper Gorge. Assays include:

- 5 m @ 0.7% Cu

**MAIDEN RESOURCE**

Horseshoe Metals Ltd advised the completion of the Maiden Mineral Resource estimation at the Kumarina project located in the Peak Hill Mineral Field of Western Australia. The Mineral Resource estimation has been completed on the Rinaldi Prospect. At a cut-off grade of 0.5% Cu, the Measured, Indicated and Inferred Mineral Resource estimate is:

- 835,000 tonnes @ 1.3% Cu for 10,600 tonnes of contained Cu

Octagonal Resources Ltd announced the results from copper analysis of air core (AC) drill holes completed at the Burns prospect in Western Australia. During 2011, 272 AC holes were drilled to test for Archaean-style lode-gold mineralisation, with samples analysed for gold only. Following the discovery of significant potentially economic gold, copper, and silver in RC drilling during 2012 all regolith samples collected from the initial air core drilling programs were re-analysed for copper. The results from this work have identified thick zones of copper anomalism in drill holes that define a two kilometre long anomaly which is between 80 and 350 m wide and not constrained by drilling along its southeast margin. A second anomaly was also identified that extends over 700 m and is not constrained by drilling to the northwest. Significant Niton handheld XRF results include:

- 12 m @ 1.5% Cu from 24 m (including 4 m @ 3.1% Cu)
- 21 m @ 0.5% Cu
- 11 m @ 0.5% Cu

Silver Lake Resources Ltd announced an update on infill drilling activities at Hollandaire within the Eelya Complex part of the Murchison gold project located 600 km north of Perth. Silver Lake commenced drilling at the Eelya Complex in September 2011 and since then mineralisation has been intercepted along a 10 km mineralised corridor. Infill assay results include:

- 12 m @ 8.7% Cu (including 5.0 m @ 3.1 g/t Au)
- 12 m @ 8.1% Cu (including 5.0 m @ 2.1 g/t Au)
- 10 m @ 8.8% Cu and 2.8 g/t Au
GOLD

New South Wales

Alkane Resource Ltd reported on drilling results from the Caloma Two deposit within the Tomingley gold project located approximately 50 km southwest of Dubbo. Results include the highest grade intersection recorded in the project:
- 9 m @ 110 g/t Au (including 1 m @ 821 g/t Au)
- 10 m @ 2.38 g/t Au (including 5 m @ 5.71 g/t Au)

Central West Gold NL and Fisher Resources Pty Ltd announced progress on the RC drilling program on the Mt Solitary prospect. The program consisted of seven RC drill holes completed for a total of 1362 m. Results obtained from this drilling program have proven to be highly encouraging with some very high gold grades received. Gold assay results have defined several significant intersections, including:
- 6 m @ 8.24 g/t Au
- 4 m @ 9.98 g/t Au
- 9 m @ 2.60 g/t Au

Clancy Exploration Ltd announced results from recent RC drilling at the Meritiga prospect which is part of the Condobolin project. Strike extent of the lode has been constrained but it remains open up and down dip.

Figure 2: Selected base metals, copper and copper-gold exploration projects, 2013.

Highlights of the drilling program include:
- 10 m @ 5.78 g/t Au and 26.79 g/t Ag (including 4 m @ 14.16 g/t Au and 61.7 g/t Ag)
- 15 m @ 2.76 g/t Au and 8.78 g/t Ag (including 5 m @ 7.89 g/t Au and 22.28 g/t Ag)
- 23 m @ 0.36 g/t Au and 46.15 g/t Ag (including 4 m @ 0.83 g/t Au and 226.93 g/t Ag)

White Rock Minerals Ltd received further encouraging assay results from drilling at the emerging Red Rock prospect at Mt Carrington. The seven-hole program completed in April was designed to infill the drilling gaps within the known mineralised zone to firm up the geological model, as well as test for northern extensions to mineralisation. The program has returned a suite of promising assay results, and importantly has provided the information required to enable a Maiden Resource estimation to be undertaken. Results include:
- 16 m @ 2.1 g/t Au (including 4 m @ 6.9 g/t Au)
- 15 m @ 2.0 g/t Au (including 1 m @ 22.0 g/t Au)
EXAMPLES OF MAJOR MINERAL EXPLORATION RESULTS 2013

**Kangaroo Caves** (Ventures Resources Ltd)
15 m @ 0.30% Cu, 6.99% Zn, 0.21% Pb, 31.5 g/t Ag and 0.12 g/t Au

**Narralong** (Millennium Minerals Ltd)
21 m @ 5.59 g/t Au

**Brockman** (Finders Mines Ltd)
18 m @ 58.68% Fe

**Sirius** (Brockman Resources Ltd)
109 Mt Fe @ 60.03% Fe

**Paulsens** (Northern Star Resources Ltd)
12.8 m @ 25.4 g/t Au

**Kilba** (Tungsten Mining NL)
14.5 m @ 0.80% WO₃

**Golden Wings** (Gacooye Resources Ltd)
36 m @ 7.7 g/t Au

**South Limb Pod** (Pagrass Metals Ltd)
21 m @ 3.68% Cu, 3.42% Zn, 26.2 g/t Ag and 0.15 g/t Au

**Hollandaire** (Silver Lake Resources Ltd)
12 m @ 8.7% Cu

**T1** (Mount Gibson Iron Ltd)
1.51 Mt of hematite grading 60.3% Fe

**Bundarra** (Blyth Resources Ltd)
1.63 Mt @ 2.29 g/t Au

**Nambi South** (Redcliff Resources Ltd)
25 m @ 3.57 g/t Au

**Oxley** (Sheffield Resources)
75 m @ 8.38% K₂O

**Mt Mulgine** (Hazwood Resources Ltd)
71 m @ 0.136% WO₃

**Quinns and Mt Ida** (Wild Acre Metals Ltd)
1,23 Mt @ 2.46 g/t Au

**Dinner Hill** (Potash West NL)
11 m @ 4.33% K₂O

**Aphrodite** (Aphrodite Gold Ltd)
33 m @ 3.37 g/t Au

**Mt Jewell** (Kalahro Gold Mines Ltd)
2.74 Mt @ 1.36 g/t Au

**Edwards and Gryphon** (Bulabulling Gold Ltd)
5 m @ 14.52 g/t Au

**Melanie Anne** (Focus Minerals Ltd)
6 m @ 97 g/t Au

**Spargos Reward** (Kolin Resources Ltd)
8 m @ 10.3 g/t Au

**Medcalf** (Ausdata Resources Ltd)
28.5 Mt @ 0.501% V₂O₅

**Nimbus** (MacPhersons Resources Ltd)
1 m @ 10.6 g/t Au, 4.4 g/t Ag, 12 g/t Hg

**South Woodie Woodie** (Spitfire Resources Ltd)
7 m @ 16.8% Mn

**Camelewod** (Rox Resources Ltd)
1.7 m @ 3.2% Ni

**Copper Gorge** (Hazwood Resources Ltd)
5 m @ 0.7% Cu

**Split Rock** (Atlas Iron Ltd)
136 m @ 56.74% Fe

**Ramormie** (Dartian Gold Ltd)
4 m @ 10.4 g/t Au

**Novo** (Syron Resources NL)
10.2 Mt @ 2.4% Ni, 1% Cu and 0.08% Co

**Mopoke Well** (Energy Metals Ltd)
9.75 Mt @ 165 ppm eU₃O₈

**Burns** (Octagonal Resources Ltd)
12 m @ 1.5% Cu from 24 m

**Jury-Metcalfe** (Panoramic Resources)
323 000 tonnes @ 1.98% Ni

**Paris** (Investigator Resources Ltd)
4.6 m at 1557 g/t Ag

**Tank Hill** (Musgrave Minerals Ltd)
22 m @ 0.7% Zn, 0.4% Pb, 44 g/t Ag, 0.09 g/t Au

**Kookaburra Gully** (Lincoln Minerals Ltd)
2.25 Mt grading 15% TGC

**Campoono Central** (Archer Exploration Ltd)
34 m @ 10.7% TGC

**Hillside** (Rox Minerals Ltd)
120 Mt @ 0.53% Cu, 0.14 g/t Au and 12.8% Fe

**Jerangle** (Forge Resources)
2.6 m @ 10 g/t Ag, 0.2% Cu and 6% Pb + Zn
Examples of major mineral exploration results 2013

Kangaroo Caves
- Brockman
  - Paulsens
    - 71 m @ 0.136% WO₃

Bundarra
- Kilba
  - 12.8 m @ 25.4 g/t Au
  - 21 m @ 5.59 g/t Au

Golden Wings
- Quinns and Mt Ida
  - 1.23 Mt @ 2.46 g/t Au
  - 109 Mt Fe @ 60.03% Fe

Edwards and Gryphon
- Mt Jewell
  - Aphrodite
    - (Mount Gibson Iron Ltd)
  - Tungsten Mining NL
  - Echo Resources Ltd
  - Northern Star Resources Ltd
  - Millennium Minerals Ltd
  - Horseshoe Metals Ltd
  - Aphrodite Gold Ltd
  - Potash West NL
  - Energia Minerals Ltd
  - Gascoyne Resources Ltd
  - Alloy Resources Ltd
  - Pegasus Metals Ltd

- 1.51 Mt of hematite grading 60.3% Fe

- 75 m @ 8.38% K₂O

South Woodie Woodie
- 10 m @ 545 ppm U₃O₈
  - 25 m @ 3.57 g/t Au
  - 11.5 m @ 1.60 g/t Au

Medcalf
- Nimbus
  - 12 m @ 8.7% Cu
  - 36 m @ 7.7 g/t Au

- (Atlas Iron Ltd)
  - (MacPhersons Resources Ltd)
  - (Audalia Resources Ltd)
  - (Mithril Resources Ltd)
  - (Rox Resources Ltd)

Spargos Reward
- 11 m @ 4.33% K₂O

- (Bullabulling Gold Ltd)

- (Sirius Resources NL)
  - (Octagonal Resources Ltd)
  - (Rex Minerals Ltd)
  - (Musgraves Minerals Ltd)
  - (Panoramic Resources)
  - (Lincoln Minerals Ltd)
  - (Archer Exploration Ltd)

- 6 m @ 97 g/t Au

Faugh-a-Ballagh
- 0.87% Zn, 27 g/t Ag

- (Emmerson Resources Ltd)
  - (TNG Ltd)

- (Kidman Resources Ltd)

- (Jaguar Minerals Ltd)
  - (Independence Group NL)
  - (MGT Resources Ltd)
  - (Catalyst Metals Ltd)
  - (Octagonal Resources Ltd)

- 36 m @ 2.78% Cu, 0.9% Pb, 2.3% Zn, 27.6 g/t Ag, and 0.2 g/t Au

- 12 m @ 1.5% Cu from 24 m

Burns
- 44 g/t Ag, 0.09 g/t Au

- 22 m @ 0.7% Zn, 0.4% Pb,

Tank Hill
- 323 000 tonnes @ 1.98% Ni

- (Investigator Resources Ltd)
  - (Sirius Resources NL)
  - (Octagonal Resources Ltd)
  - (Rex Minerals Ltd)
  - (Musgraves Minerals Ltd)
  - (Panoramic Resources)
  - (Lincoln Minerals Ltd)
  - (Archer Exploration Ltd)

- 10.2 Mt @ 2.4% Ni,
- 120 Mt @ 0.53% Cu,

- 4 m @ 10.4 g/t Au

Mount Peake
- (Broken Hill Prospecting Ltd)
  - (Clancy Exploration Ltd)
  - (Oz Minerals Ltd)
  - (Central West Gold NL and Fisher Resources Pty Ltd)
  - (Peel Mining Ltd)

- 4 m @ 1.7% Zn, 1.2% Pb and 3 g/t Ag

Stephens Trig
- 66 m @ 0.33% Sn, 7 m @ 20.23% Mn

- (Renaissance Uranium)
  - (Trafford Reources)
  - (Silver City Mines Ltd)

- 9 m @ 0.43% Cu, 0.1 g/t Au and 2.4 g/t Ag

- 34 m @ 1.61% Cu and 0.4 g/t Au

Webs (Silver Mines)
- 3.8 m @ 575 g/t Ag, 0.49% Cu, 0.76% Pb and 3.06% Zn

Red Rock (White Rock Minerals Ltd)
- 8 m @ 3.23% Cu

Robert Heg (Iron Range Resources Ltd)
- 24 m @ 646 ppm UO₂

Jervois (XMG Resources Ltd)
- 24 m @ 1.47% Cu, 3.5 g/t Ag, 0.04 g/t Au,

- 7B (Sent Metal’s Ltd)
  - 9 m @ 0.43% Cu, 0.1 g/t Au and 2.4 g/t Ag

Blue Caesar (Chinook Yunnan Copper Resources Ltd)
- 8 m @ 4.26% Cu

Goanna (Emerence Resources Ltd)
- 99 m @ 0.43% Cu

Mount Hardy (RING Ltd)
- 13 m @ 1.17% Cu and 1.82% Zn

Mount Peake (RING Ltd)
- 164.4 m @ 0.33% V₂O₅, 6.27% TiO₂, and 27.2% Fe

Home of Bullion (Kalrnas Resources Ltd)
- 36 m @ 2.78% Cu, 0.9% Pb, 2.3% Zn, 27.6 g/t Ag, and 0.2 g/t Au

Figure 3: This map of Australia shows operating and developing mines and major mineral deposits on generalised surface geology (coloured areas; see legend above). The greyscale background represents aeromagnetic data (0.5 first vertical derivative of total magnetic intensity).
Victoria
Catalyst Metals Ltd announced that high-grade gold mineralisation has been intersected in an AC drilling program at its Four Eagles project, located 70 km north of Bendigo. Drill results include:
- 1.5 m @ 8.7 g/t Au

Octagonal Resources Ltd announced the results of a drilling program completed at the Frenchman’s Reef, Wehlia, in Central Victoria. The 22 hole RC drilling program, totalling 898 m, tested reef structure over 210 m strike length and to 30 m depth. Recent drilling confirms high-grade and nuggety gold. Mineralisation is open to the north and down-dip. Significant assay results include:
- 6 m @ 24.3 g/t Au (including 1 m @ 138.8 g/t Au)
- 1 m @ 20.0 g/t Au
- 2 m @ 4.1 g/t Au

Western Australia
Alloy Resources Ltd provided an update on recent exploration drilling at the Company’s Horse Well project. The Company completed a 42 hole AC drill program for 2755 m at its Crack of Dawn and Dusk til Dawn prospects. This program tested two drill anomalies defined by Eagle Mining in the mid-1990s which had never been followed up. The drill program has confirmed the discovery of a large gold mineralised system with zones up to 200 m wide and 1 km long. Results include:
- 11.5 m @ 1.60 g/t Au
- 12 m @ 0.60 g/t Au
- 4 m @ 3.10 g/t Au

Aphrodite Gold Ltd announced further encouraging drill results from its Aphrodite Gold project near Kalgoorlie. The latest drilling has continued to test the Alpha and Phi gold lodes to a vertical depth of around 200 m with holes positioned inside the open pit shell defined by the 2012 scoping study. This drilling forms part of the company’s pre-feasibility study currently in progress. Gold intervals include:
- 33 m @ 3.37 g/t Au
- 17 m @ 4.17 g/t Au
- 5 m @ 7.65 g/t Au

Bullabulling Gold Ltd reported that assay results have been received for eight additional RC holes drilled at the Edwards and Gryphon prospects. The results provide further support for the potential amalgamation of the two proposed open pits to form a single larger pit of at least 1.2 km in length. All eight holes intersected gold mineralisation, with seven producing intercepts above the 0.5 g/t resource cut-off grade. Results include:
- 5 m @ 14.52 g/t Au (including 1 m @ 68.6 g/t Au)
- 9 m @ 1.89 g/t Au

Bulletin Resources Ltd announced drilling results at the 100% owned Golden Crown project located near Halls Creek in the East Kimberley. The results confirm potential for a future open pit development at the project. The verification drilling is improving the understanding of the shallow, structurally complex stockwork gold mineralisation. Highlights from the first series of holes drilled perpendicular to the interpreted principal vein orientation at the Faugh-a-Ballagh deposit include:
- 1 m @ 5.0 g/t Au
- 1 m @ 3.8 g/t Au

Dacian Gold Ltd announced an update of its ongoing drilling activities at its 100% owned Mt Morgans Gold project, located 40 km west of Laverton in Western Australia’s north-eastern goldfields. Results from step-out resource-extension drilling at Westralia and Transvaal; and testing below the Ramornie prospect, confirm high-grade extensions to known mineralisation at each site, including:
- 4 m @ 10.4 g/t Au at Ramornie
- 5 m @ 6.8 g/t Au at Westralia
- 5 m @ 5.0 g/t Au at Transvaal

Echo Resources Ltd announced further gold intercepts from 17 RC drill holes completed at the Julius Discovery. The prospect is located in the Yandal Gold Province. Results include:
- 3 m @ 1.9 g/t Au
- 1 m @ 58.7 g/t Au
- 5 m @ 2.3 g/t Au

Focus Minerals Ltd announced the first round of results from its near mill exploration program in Coolgardie. The aim of the programs across the group’s land holdings in the eastern goldfields region of Western Australia is to bolster Mineral Resources and Ore Reserves at its current operations as well as build a pipeline of future mines near its milling centres. Highlights of the Coolgardie program include high-grade intercepts at the Melanie Anne, Boundary and Jolly Britons targets near Focus’ Three Mile Hill plant. Best intercepts include:
- 6 m @ 97.0 g/t Au at Melanie Anne
- 34 m @ 4.0 g/t Au at Melanie Anne
- 7 m @ 5.3 g/t Au at Boundary
- 17 m @ 3.7 g/t Au at Jolly Britons

Maiden Resource
Blih Resources Ltd announced the Maiden Open Pit Ore Reserve Statement for the Bundarra Gold project, located in the Leonora region of Western Australia. The Maiden Resource is:
- Ore Reserve of 1.63 million tonnes @ 2.29 g/t Au for 120,006 oz of Au
Gascoyne Resources Ltd announced high-grade gold intersections from the company’s first exploration drilling program at the Golden Wings prospect at the newly acquired 80% owned Dalgaranga gold project in the Murchison region. A total of eight RC holes were drilled around the known Gilbeys resource area and four RC holes at the Golden Wings prospect, where historical drilling had identified significant mineralisation. This RC drilling is the first exploration in the area for around 12 years. The drilling has identified a significant shallow and high-grade zone of gold mineralisation at the Golden Wings prospect, which is outside the known resource. Four metre composite RC sample results include:

- 36 m @ 7.7 g/t Au (including 8 m @ 29.1 g/t Au)

### MAIDEN RESOURCE

KalNorth Gold Mines Ltd announced that an initial Probable Reserve has been calculated for the Mt Jewell Field located 60 km north of Kalgoorlie:

- 2.74 million tonnes @ 1.36 g/t Au for 119,800 ounces of Au

MacPhersons Resources Ltd announced that preliminary AC drilling results have been received on recent extensional drilling within 500 m of the Nimbus Discovery Pit. The drilling has successfully identified new mineralisation zones adjacent to, and strike extensions along from, their Nimbus operations. Significant intersections include:

- 1 m @ 10.6 g/t Au, 4.4 g/t Ag, 12.0 g/t Hg
- 1 m @ 3.9 g/t Au
- 4 m @ 1.6 g/t Au

Millennium Minerals Ltd reported on the results from RC drilling at its ABC and D Reef, Falcon, Condor, Harrier, Crow and G Reef deposits. These are located in the Golden Gate area of the Nullagine Gold project. Multiple new medium-to high-grade intersections show that all the Golden Gate deposits are open along strike in existing or newly intersected lodes. Moderate to high-grade intersections occur adjacent to, along strike of, and immediately beneath all the current Golden Gate proposed pit designs and show excellent potential to be enlarged with further drilling. Accordingly a further 5700 m follow-up RC drilling is planned for the deposits this year. Once completed, updated Mineral Resource and Ore Reserve estimates will be carried out for all the Golden Gate deposits. Drill results include:

- 21 m @ 5.59 g/t Au at G Reef
- 15 m @ 4.94 g/t Au at Condor
- 7 m @ 3.9 g/t Au at Crow
- 4 m @ 5.79 g/t Au at Harrier
- 12 m @ 1.92 g/t Au at D Reef

Mithril Resources Ltd completed a drilling program at its wholly owned Spargos Reward Gold Mine, located approximately 30 km west of Kambalda, where it intersected further high-grade gold mineralisation below the historic workings. Results confirm the high-grade nature of the zone and suggest width and grade are increasing at depth beneath the historic workings. Mineralisation remains open along strike and with depth (down dip). Drill results include:

- 8 m @ 10.30 g/t Au (including 3m @ 25.73 g/t Au)
- 10 m @ 4.60 g/t Au (including 3 m @ 13.00 g/t Au)

Northern Star Resources Ltd advised that drilling has returned high-grade gold intersections 100 m below the previously known limits of mineralisation at the Paulsens Mine in WA. Significant results include:

- 10 m @ 31.9 g/t Au
- 12.8 m @ 25.4 g/t Au
- 8.3 m @ 40.3 g/t Au

Redcliff Resources Ltd reported on high-grade Au results in RC drill at their Nambi South project located 60 km north-east of Leonora. The drill intercepts show a continuation of broad mineralisation, which has not been closed off at depth. Further drilling is planned to test the tonnage of shallow oxidised material with potential for development in the short term. Structural interpretation is also to be undertaken prior to further testing of the depth extension of the mineralisation. Results include:

- 25 m @ 3.57 g/t Au
- 6 m @ 4.56 g/t Au

### MAIDEN RESOURCE

Wild Acre Metals Ltd announced a Maiden Mineral Resource estimate for a number of prospects at its 100% owned Mt Ida project, located in the Eastern Goldfields of WA approximately 230 km NNW of Kalgoorlie. The Resource at Quinns and Mt Ida South projects using a 1 g/t gold cut-off is estimated at:

- 1.23 million tonnes @ 2.46 g/t Au for 97,037 ounces Au
**GRAPHITE**

**South Australia**

Archer Exploration Ltd announced that RC drilling at Campoona Central has confirmed the presence of graphite similar to the highly graphitic schist at Campoona Shaft and at widths amenable to mining. A total of 42 holes totalling 1937 m were completed with the average vertical depth below surface being approximately 45 m. Drill results include:

- 34 m @ 10.7% total graphitic carbon (TGC)
- 25 m @ 12.6% TGC
- 25 m @ 12.8% TGC
- 24 m @ 16.4% TGC

**Western Australia**

Lamboo Resources has complete RC drilling and geological mapping at Target 1 within the McIntosh project. The program has identified a 2000 m extension on previously known resources. Intersections include:

- 9 m @ 5.8% TGC
- 31 m @ 4.0% TGC
- 20 m @ 4.6% TGC

Monax Mining Ltd undertook exploration on its Waddikee Graphite project, located on South Australia’s Eyre Peninsula. The exploration program comprised 77 RC drill holes at the Wilclo South prospect totalling 7307 m. The drilling program was designed to test a 1.2 km strike zone to 120 m depth for an initial resource definition. Significant results include:

- 12 m @ 17.5% TGC
- 15 m @ 16.3% TGC
- 10 m @ 24.4% TGC
- 9 m @ 19.7% TGC
**IRON ORE**

**Western Australia**

Atlas Iron Ltd announced excellent drill results from the recently named Split Rock discovery, at its 100% owned Corunna Downs project. To date 39 RC holes have been completed. Mineralisation remains open to the north with potential extensions to the west. The exploration and drilling program is ongoing. Drill results include:

- 136 m @ 56.74% Fe
- 90 m @ 58.74% Fe
- 98 m @ 57.77% Fe

**MAIDEN RESOURCE**

Brockman Mining Ltd announced a Maiden Inferred Mineral Resource for the Sirius deposit at the Ophthalmia project near Newman in the East Pilbara region of:

- 109 million tonnes @ 60.03% Fe

Flinders Mines Ltd announced results from a follow-up RC drilling program to define additional mineralisation at their Brockman Iron Deposit. A total of 71 holes were drilled for 2484 m. Drill results include:

- 10 m @ 61.32% Fe
- 18 m @ 58.68% Fe

**MAIDEN RESOURCE**

Mount Gibson Iron Ltd announced a Maiden Mineral Resource estimate for the T1 deposit at the company’s Tallering Peak iron ore mine, 260 km east of Geraldton. Comprehensive drilling and evaluation of the T1 prospect, 1 km east of the T6 pit, has resulted in a Maiden Indicated and Inferred Resource of:

- 1.51 million tonnes of hematite grading 60.3% Fe using a 55% Fe cut-off grade

**MANGANESE**

**South Australia**

Trafford Resources Ltd reported on a drilling project at their Wilcherry Hill project. In total 29 holes were drilled for 2198 m which highlighted the continuity of the manganese mineralisation along a 6 km strike. Drilling results include:

- 23 m @ 22.12% Mn (including 7 m @ 28.93% Mn and 4 m @ 29.02% Mn)
- 7 m @ 20.23% Mn
Western Australia

Spitfire Resources Ltd announced it had completed 41.3 km (from 12 lines) of Dipole-Dipole Induced Polarisation Surveys (DDiP) at its South Woodie Woodie project and followed this with a preliminary RC drilling program that tested six chargeable anomalies. Assay results from drilling have identified new areas of manganese mineralisation which continue to support the potential of the project. Results include:

- 7 m @ 16.8% Mn

**NICKEL AND COBALT**

**New South Wales**

Broken Hill Prospecting Ltd’s first diamond drill hole at the recently discovered Railway Cobalt Deposit at the Company’s Thackaringa Cobalt project near Broken Hill in NSW was drilled earlier this year. Assaying of the sampled drill core has been completed. Results include:

- 44.5 m @ 0.07% Co

Western Australia

Rox Resources Ltd advised further drill results from its Camelwood prospect at Fisher East, located 450 km north of Kalgoorlie. Diamond drilling had extended the mineralised system to over 1.2 km in strike length and over 500 m down plunge extent. Drill results include:

- 1.7 m @ 3.2% Ni
- 3.3 m @ 1.9% Ni (including 0.85 m @ 5.0% Ni)

**MAIDEN RESOURCE**

Sirius Resources NL announced a Maiden Resource for the Nova nickel-copper-cobalt deposit. The resource comprises:

- 10.2 million tonnes @ 2.4% Ni, 1% Cu and 0.08% Co for 242 000 tonnes of Ni, 100 000 tonnes Cu and 7700 tonnes Co

**POTASH**

**Western Australia**

Potash West NL announced the results of recent drilling at its Dandaragan Trough project, located 160 km north of Perth. The 94 hole, 4634 m AC drilling program demonstrated continuity of the Dinner Hill Mineral Resource through additional drilling to the south and east of the deposit. This program intersected the thickest sequences of the target Molecap Greensand recorded within the project area. Drill results include:

- 11 m @ 4.33% K₂O
- 14 m @ 4.2% K₂O
- 15 m @ 4.33% K₂O

Sheffield Resources announced assay results from RC drilling at its Oxley project near Three Springs in Western Australia’s mid-west region. The 17-hole 1704 m RC drilling program returned thick, high-grade potash intervals including:

- 75 m @ 8.38% K₂O (including 17 m @ 10.1% K₂O)
- 72 m @ 8.53% K₂O (including 11 m @ 10.1% K₂O)
- 48 m @ 9.84% K₂O (including 39 m @ 10.4% K₂O)

**RARE EARTH ELEMENTS (REE)**

**Northern Territory**

TUC Resources Ltd reported results from a surface sampling project at their Skyfall prospect. The rock chip results have given the highest total rare earth oxide (TREO) assays to date and represent a target for future drill projects. Rock chip results include:

- 1.25% TREO (37% heavy rare earth oxide (HREO)/TREO)
- 0.81% TREO (14.8% HREO/TREO)
Western Australia
Northern Minerals Ltd announced initial results from ongoing drilling at Gambit West in its Browns Range project, including the highest grade heavy rare earths (HRE) intersections identified to date. The results are from a 20,000 m drilling program that is targeting an increase in resources at Browns Range. Data from the drilling results will be incorporated into a resource update planned to be released in October. Best intersections from the first phase of RC drilling at Gambit West include:

- 16 m @ 0.5% TREO, containing 383 ppm Dy$_2$O$_3$ and 2586 ppm Y$_2$O$_3$
- 40 m @ 2.26% TREO, containing 1978 ppm Dy$_2$O$_3$ and 13,509 ppm Y$_2$O$_3$ (including 9 m @ 4.65% TREO, containing 4427 ppm Dy$_2$O$_3$ and 28,964 ppm Y$_2$O$_3$)

**TIN**

Queensland
MGT Resources Ltd announced the results of its 2013 Summer Hills drilling program. The purpose of the program is to expand and update tin resources at both Dalcouth and Extended in order to provide feed for the Mt Veteran tin processing plant. The drill program comprised 23 RC percussion holes (1035 m) and one 45 m long RC tail on a pre-existing RC hole. Drill results include:

- 4 m @ 2.24% Sn (including 1 m @ 5.88% Sn)
- 8 m @ 1.1% Sn (including 1 m @ 2.35% Sn)
- 8 m @ 0.56% Sn (including 1 m @ 1.09% Sn)

South Australia
Trafford Resources Ltd announced initial results from follow up drilling at the Zealous prospect at their Wilcherry Hill project. The holes form this drilling ended in mineralisation, the full extent of which is yet to be tested. The mineralisation currently has a 150 m strike and is open in all directions. Drill intersections include:

- 66 m @ 0.33% Sn (including 5 m @ 2.29% Sn)

Tasmania
Stellar Resources Ltd reported on strong drilling results from Queen Hill. This is the first drill hole into Queen Hill for over 30 years and was drilled for metallurgical purposes but provided thicker than expected intersections of high-grade tin and hanging-wall base metal lodes. Best intersections include:

- 32 m @ 1.58% Sn (including 10 m @ 2.54% Sn)
- 5 m @ 2.49% Sn
- 10 m @ 0.10% Sn, 58 g/t Ag, 3.11% Pb and 2.56% Zn
TUNGSTEN

Western Australia
Hazelwood Resources Ltd received significant tungsten assays from its validation program at the Mt Mulgine Tungsten project, located in the mid-west of Western Australia. Recent RC drilling at the Trench intersected very significant widths of near-surface tungsten mineralisation. Results include:
- 2 m @ 0.25% WO₃
- 71 m @ 0.136% WO₃
- 69 m @ 0.169% WO₃

Tungsten Mining NL reported positive results from the final analysis of the first 8 holes of its Phase 1 drilling program at the Kilba project in the Gascoyne Region of Western Australia. Best intersections include:
- 14.5 m @ 0.80% WO₃
- 7.4 m @ 1.06% WO₃

URANIUM

Queensland
Inova Resources Ltd completed a drilling program at Robert Heg prospect in the Cloncurry district in north-western Queensland. The program was designed to identify the main structural controls for uranium mineralisation. The high-grade uranium mineralisation is hosted in a sequence of calc-silicate units, appears to be associated with a set of NNW trending, westerly-dipping zones, and is open along strike and down dip. Five, shallow RC drill holes were drilled, returning the following results:
- 24 m @ 646 ppm U₃O₈
- 13 m @ 1126 ppm U₃O₈

South Australia
Additional significant uranium intersections have been identified at the large Hamilton prospect within Core Exploration’s Fitton project, 500 km north of Adelaide. The new results have confirmed that Fitton’s largest anomaly, Hamilton, located just 2 km to the southwest of the Scott Lee prospect, hosts mineralised geology very similar to the previously identified high-grade Scott Lee prospect. Drilling intercepted anomalous copper and uranium mineralisation. First drilling results from the new Hamilton prospect include:
- 3 m @ 104 ppm U₃O₈
- 7 m @ 1020 ppm Cu

Western Australia
Energia Minerals Ltd reported that final wet chemical assays have been received for an additional 11 mineralised holes at the Carley Bore deposit within its 100% owned Nyang project, including some of the best results seen to date. The new results, most of which are come from the Eastern Mineralised Zone and the western extension to the Carley Bore deposit, include significant intersections of:
- 10 m @ 545 ppm U₃O₈
- 4 m @ 1353 ppm U₃O₈

MAIDEN RESOURCE
Energy Metals Ltd announced a Maiden Resource estimate has been completed at the Peninsula prospect within its 100% owned Mopoke Well project:
- 9.75 million tonnes @ 165 ppm U₃O₈ for 1613 tonnes or 3.56 Mlb U₃O₈ at a cut-off grade of 100 ppm U₃O₈

Mindax Ltd announced the completion of a scout AC drilling program at its Kellerberrin project. The project is located approximately 170 km east of Perth. A total of 38 AC holes for 1875 m were drilled testing an unexplored section of the target paleo-channel system. The drilling was conducted using 400 m spaced holes on 3 km spaced drill traverses. All holes were sampled on a 4 m composite basis producing 481 samples. The best anomalous intervals returned were:
- 16 m @ 29 ppm U
- 8 m @ 32 ppm U

VANADIUM

Western Australia
Audalia Resources Ltd announced a Maiden Inferred Resource on its Medcalf project of:
- 28.5 million tonnes @ 0.501% V₂O₅ for 142,862 tonnes of V₂O₅

TNG Ltd advised the results of sampling of diamond drilling at Mount Peake. A total of 14 holes for 1712 m were completed within the resource. The drilling was to provide samples for metallurgical test work contribute to the next resource calculation. The best interval recorded was:
- 164.4 m @ 0.33% V₂O₅, 6.27% TiO₂ and 27.2% Fe
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