Exploration Expenditure Review

- Mineral exploration expenditure (non-petroleum) for the 2014–15 financial year was $1575.0 million (Figure 1).
- Exploration expenditure in and around known deposits (brownfield) was $1091.0 million and expenditure for undiscovered mineralisation in frontier regions (greenfield) was $485.0 million. Brownfield drilling totalled 4,394,900 metres (m) and greenfield drilling totalled 1,569,300 m (Figure 2).
- Exploration expenditure by jurisdiction in 2014–15 was: Western Australia $917.4 million, Queensland $311.3 million, South Australia $86.7 million, New South Wales $122.1 million, Northern Territory $95.7 million, Tasmania $19.9 million and Victoria $22.9 million (Figure 3).
- Western Australia had the biggest share of exploration expenditure with 58% of total expenditure.
- Exploration spending by commodity in 2014–15 was: iron ore $447.7 million, gold $395.7 million, silver-lead-zinc $51.9 million, copper $144.4 million, cobalt and nickel $82.7 million, coal $251.8 million, uranium $40.6 million, and spending associated with minor commodities (such as manganese, molybdenum, phosphate, tin, tungsten and vanadium) $129.1 million.
- Iron ore, gold and base metals (copper, silver, lead, zinc, nickel, cobalt) were the top three commodities in terms of exploration expenditure in 2014–15.

Selected Exploration Results 2014–15

Exploration results over the period July 2014 to June 2015 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, iron ore, nickel, platinum group elements and uranium.

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 (Figure 6).
Figure 2 Greenfield and brownfield expenditure and drilling – financial year series (based on Australian Bureau of Statistics 8412.0 data).

Figure 3 Exploration expenditure by jurisdiction – financial year series (based on Australian Bureau of Statistics 8412.0 data).
Maiden JORC Resources Announcements

Maiden resources were announced across Australia for a range of mineral commodities including gold, silver, lead, zinc and copper (Table 1 and Figure 4).

Table 1  Maiden JORC Resource announcements in Australia 2014–15.

<table>
<thead>
<tr>
<th>Deposit</th>
<th>Company</th>
<th>State</th>
<th>Type</th>
<th>Resource Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commonwealth</td>
<td>Impact Metals Ltd</td>
<td>NSW</td>
<td>Inferred</td>
<td>720 000 t @ 2.8 g/t Au, 48 g/t Ag, 1.5% Zn, 0.6% Pb and 0.1% Cu</td>
</tr>
<tr>
<td>Sorpresa</td>
<td>Rimfire Pacific Mining NL</td>
<td>NSW</td>
<td>Indicated and</td>
<td>6.4 Mt @ 0.61 g/t Au and 38 g/t Ag</td>
</tr>
<tr>
<td>Home of Bullion</td>
<td>Kidman Resources Ltd</td>
<td>NT</td>
<td>Inferred</td>
<td>2.5 Mt @ 1.8% Cu, 2% Zn, 36 g/t Ag, 1.2% Pb and 0.14% Au</td>
</tr>
<tr>
<td>Coalstoun</td>
<td>ActivEX Ltd</td>
<td>Qld</td>
<td>Inferred</td>
<td>26.9 Mt @ 0.38% Cu</td>
</tr>
<tr>
<td>Barambah</td>
<td>ActivEX Ltd</td>
<td>Qld</td>
<td>Inferred</td>
<td>363 000 t @ 1.47 g/t Au and 61.8 g/t Ag</td>
</tr>
<tr>
<td>Florence Bore</td>
<td>ActivEX Ltd</td>
<td>Qld</td>
<td>Inferred</td>
<td>1.1 Mt @ 0.81% Cu and 0.15 g/t Au</td>
</tr>
<tr>
<td>Lillymay</td>
<td>Syndicate Metals Ltd</td>
<td>Qld</td>
<td>Inferred</td>
<td>225 295 t @ 2.3% Cu and 0.02 g/t Au</td>
</tr>
<tr>
<td>Turkey Creek</td>
<td>Altona Mining Ltd</td>
<td>Qld</td>
<td>Indicated and</td>
<td>21 Mt @ 0.59 % Cu</td>
</tr>
<tr>
<td>Thalanga</td>
<td>Red River Resources Ltd</td>
<td>Qld</td>
<td>Indicated and</td>
<td>1.2 Mt @ 1.7% Cu, 1.9% Pb, 5.8% Zn, 0.2 g/t Au and 49 g/t Ag</td>
</tr>
<tr>
<td>Kimba Gap</td>
<td>Centrex Metals Ltd</td>
<td>SA</td>
<td>Inferred</td>
<td>487 Mt @ 24.7% Fe</td>
</tr>
<tr>
<td>Corboys</td>
<td>Metaliko Resources Ltd</td>
<td>WA</td>
<td>Inferred</td>
<td>700 000 t @ 2.17 g/t Au</td>
</tr>
<tr>
<td>Suzie Zone</td>
<td>Doray Minerals Ltd</td>
<td>WA</td>
<td>Indicated and</td>
<td>468 000 t @ 8.1 g/t Au</td>
</tr>
<tr>
<td>Matilda</td>
<td>Blackham Resources Ltd</td>
<td>WA</td>
<td>Indicated and</td>
<td>2.6 Mt @ 3.4 g/t Au</td>
</tr>
<tr>
<td>Yarraloola</td>
<td>Coziron Resources Ltd</td>
<td>WA</td>
<td>Inferred</td>
<td>73 Mt @ 53.9% Fe</td>
</tr>
<tr>
<td>Blackmans</td>
<td>Ramelius Resources Ltd</td>
<td>WA</td>
<td>Inferred</td>
<td>490 000 t @ 2.5 g/t Au</td>
</tr>
<tr>
<td>Wonmunna</td>
<td>Ascot Resources</td>
<td>WA</td>
<td>Inferred</td>
<td>28.9 Mt @ 58% Fe</td>
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<tr>
<td>Yangibana</td>
<td>Hasting Rare Metals Ltd</td>
<td>WA</td>
<td>Indicated and</td>
<td>3.4 Mt @ 1.34% total rare earth oxides</td>
</tr>
<tr>
<td>Yamarna</td>
<td>Gold Road Resources Ltd</td>
<td>WA</td>
<td>Measured, Indicated, Inferred</td>
<td>96.93 Mt @ 1.23 g/t Au</td>
</tr>
</tbody>
</table>

Figure 4  Maiden Resource announcements.
Figure 5 Selected base metals, copper and copper-gold exploration projects, 2014–15.

Base Metals and Silver

New South Wales

Kidman Resources Ltd announced the results of a drilling program targeting a gravity high in the northern zone of Browns Reef. The drilling intersected 129 m of mineralisation downhole with high-grade zones of silver, lead, zinc and copper. Drill results include:

- 129 m @ 5.04 g/t Ag
- 7 m @ 3.02% Zn, 0.69% Pb, 0.4% Cu and 18 g/t Ag

Helix Resources Ltd announced the follow-up sample results from the Collerina prospect. Reverse circulation (RC) drilling has highlighted the presence of volcanic hosted massive sulphide (VMS)-style base metal (plus gold) mineralisation over an open-ended strike of 300 m which remains open down dip/plunge. Copper results from the 1 m sampling have highlighted the presence of high grades within the mineralised envelope. Ten individual samples returned assays greater than 5% Cu. Drilling targeted a surface geochemical anomaly and electromagnetic (EM) conductor. Highlights include:

- 29 m @ 2.2% Cu, 9 g/t Ag, 0.7% Zn (including 14 m @ 4.0% Cu, 17 g/t Ag and 1.3% Zn)
- 53 m @ 0.5% Cu (including 5 m @ 4.2% Cu and 5 g/t Ag)

Aurelia Metals Ltd provided an update on exploration at the Hera project. Assay results have been received from drilling into the Hera North discovery. Results have further extended the high-grade mineralisation, with Hera North remaining open at depth. All of the Hera North mineralisation lies outside the existing Hera resource. Results include:

- 9.5 m @ 3.1 g/t Au, 179 g/t Ag, 17.5% Pb and 12.7% Zn
- 7.7 m @ 0.1 g/t Au, 30 g/t Ag, 2.5% Pb and 3.8% Zn

Heron Resources Ltd announced the completion of a drilling campaign, with receipt of final assays and completion of a down-hole EM survey at the Woodlawn project. The program generated numerous massive sulphide intercepts and included the discovery of Lisa Lens and identification of multiple EM conductors highlighting high-priority targets for the next round of drilling. The drilling program was designed to provide data for an updated Mineral Resource estimate, as well as to test for mineralisation at shallow depth that could be suitable for early-stage exploitation for renewed mining. A total of 20 diamond drill holes for 7613 m and 11 RC holes for 1201 m were drilled focussing on the Kate Lens. Drill results include:

- 8.8 m @ 12.6% Zn, 1.6% Cu, 7.5% Pb, 2.3 g/t Au and 152 g/t Ag
- 5.6 m @ 13.3% Zn, 0.7% Cu, 5.4% Pb, 1.2 g/t Au and 26 g/t Ag
- 12.3 m @ 20.0% Zn, 2.1% Cu, 6.1% Pb, 0.8 g/t Au and 53 g/t Ag
- 14.8 m @ 5.4% Zn, 2.7% Cu, 2.0% Pb, 1.2 g/t Au and 49 g/t Ag
Centrex Metals Ltd reported on assay results from the first of four diamond drill holes at the Goulburn polymetallic project, located 10 km north of the historic Woodlawn mine. The first hole targeted a coincident magnetic and chargeability anomaly. The hole intersected a newly discovered zone of massive sulphides underlain by mineralised black shales that returned:

- 5.9 m @ 0.98% Cu, 0.31 g/t Au, 0.50% Zn and 8.64 g/t Ag (including 2.9 m @ 1.34% Cu, 0.54 g/t Au, 0.77% Zn and 9.0 g/t Ag)

**Northern Territory**

KGL Resources Ltd reported results from a deep diamond hole. Assays have confirmed the continuation of mineralisation from surface outcrop to 860 m depth. The drill hole was designed to intersect the mineralised zone at Reward at least 300 m below the existing Reward resource. The hole intersected two intervals of predominantly lead mineralisation that are approximately 5 m apart followed by a zone of copper-rich mineralisation 18 m to the east. Zinc grades were recorded in both the copper and lead zones. Drill results include:

- 7 m @ 2.07% Cu, 1.06% Pb, 2.41% Zn, 92.1 g/t Ag and 0.18 g/t Au (including 2 m @ 4.75% Cu, 1.68% Pb, 1.94% Zn, 156.1 g/t Ag and 0.25 g/t Au)

Rox Resources Ltd reported final assay results from a diamond drilling program at the Teena prospect. The program comprised six holes for 4822 m. Four of the holes intersected mineralisation extending the known mineralisation to about 1.9 km in strike length. Drill results include:

- 25.5 m @ 9.1% Zn and Pb (including 14.7 m @ 13.3% Zn and Pb)
- 7.0 m @ 4.3% Zn and Pb

Phoenix Copper Ltd reported that the first diamond hole drilled at the Iron Blow deposit has been completed. This polymetallic deposit is located within the Hayes Creek project in the Pine Creek region. The hole was drilled to 365.8 m with the aim of targeting the central zone of massive sulphide mineralisation within the resource. Drilling intersected an overall mineralised envelope of 119.5 m. A gold breccia lode was also identified, which is interpreted as being the upper part of the hydrothermal vent sourcing the massive sulphide deposits. The assay results include:

- 50.39 m @ 10.12% Zn, 2.66 g/t Au, 283 g/t Ag, 0.57% Cu and 1.39% Pb
- 19.45 m @ 15.48% Zn, 2.65 g/t Au, 492 g/t Ag, 0.56% Cu and 2.52% Pb

**Queensland**

Red Metal Ltd reported assay results from a drill hole at the Maronan project. The drill hole has identified a broad interval of gold mineralisation and a narrow sulphide-mineralised zone with high silver values. This new mineralisation is 90 m above previously identified lead and silver mineralisation zones. Drill results include:

- 55.7 m @ 1.1 g/t Au
- 2.7 m @ 6.2% Pb and 180 g/t Ag

Minotaur Exploration Ltd has undertaken a diamond drilling program at the Artemis prospect focusing on assessing the continuity of mineralisation along strike and down dip. The drilling has intersected thick and continuous zones of massive sulphides. Mineralisation remains open up and down dip, and along strike. Drill results include:

- 19.9 m @ 1.53% Cu, 1.62 g/t Au, 5.40% Zn, 0.77% Pb, 46 g/t Ag and 0.19% Co
- 16.14 m @ 3.29% Cu, 2.98 g/t Au, 6.61% Zn, 1.77% Pb, 65 g/t Ag and 0.32% Co
- 9 m @ 5.15% Cu, 4.26 g/t Au, 8.64% Zn and 1.97% Pb

Vendetta Mining Corp announced results from a RC and diamond drilling program at the Pegmont project. The program comprised 12 drill holes for a total of 2995.8 m. Drill results include:

- 4.0 m @ 5.83% Pb and 11.34% Zn
- 8.8 m @ 8.73% Pb and 3.99% Zn
- 4.2 m @ 6.29% Pb and 5.64% Zn

Aeon Metals Ltd reported initial drilling results from the Walford Creek project. The drilling was designed to identify the extent to which the current resource extends along strike. Drill results include:

- 35 m @ 1.0% Cu, 0.16% Co, 1.0% Pb, 0.7% Zn and 38 g/t Ag (including 3 m @ 4.6% Zn, 2.7% Pb and 80 g/t Ag and 15 m @ 1.7% Cu, 0.22% Co, 1.4% Pb, 0.3% Zn and 43 g/t Ag)
- 9 m @ 3.0% Pb, 2.0% Zn and 18 g/t Ag
- 17 m @ 0.9% Pb, 2.0% Zn, 24 g/t Ag and 0.02% Co
- 6 m @ 0.2% Pb, 1.3% Zn, 24 g/t Ag and 0.03% Co
South Australia

Investigator Resources Ltd announced the results for 50 of the 60 holes drilled as the final part of the recent scout drilling within the Peterlumbo tenement. The drilling totalled 169 holes for 16,453 m. The prospects drilled ranged from the immediate extensions within a 3 km radius of the Paris project to several satellite prospects within 5 km to 35 km from Paris.

Initial assessment of the geology and assays received from the drilling indicate a new, large, Paris-style system at Diomedes, 7 km northeast of Paris, and potentially at the undrilled Argos North target, 5 km northwest of Paris. Drill results include:

**Argos**
- 42 m @ 11.1 g/t Ag, 0.46% Pb and 0.30% Zn
- 6 m @ 91.9 g/t Ag, 0.12% Pb and 0.27% Zn

**Diomedes**
- 42 m @ 4.7 g/t Ag, 0.84% Pb and 0.47% Zn

Western Australia

Independence Group NL announced results from diamond-drilling programs recently completed proximal to the Bentley mine and at the Triumph prospect. Assay results include:

**Bentley mine**
- 7.8 m (true width) @ 10.1% Zn, 2.5% Cu, 99 g/t Ag and 1.1 g/t Au

**Triumph prospect**
- 8.4 m (true width) @ 9.7% Zn, 0.1% Cu, 44 g/t Ag and 0.3 g/t Au

Copper (including Copper-Gold)

New South Wales

Alkane Resource Ltd reported on a 7-hole for 1672 m RC drilling program at the Kaiser project designed to test targets peripheral to the known Kaiser mineralisation. This drilling has highlighted a new zone of porphyry-style, gold-copper mineralisation. This mineralisation and alteration covers an area of 450 m by 200 m. Drill results include:

- 16 m @ 0.87% Cu and 0.57 g/t Au (including 4 m @ 1.45% Cu and 0.78 g/t Au)
- 54 m @ 0.33% Cu and 0.14 g/t Au (including 5 m @ 1.15% Cu and 0.45 g/t Au)

Elysium Resources Ltd announced drilling results at the Burrara project. The drilling program comprised 16 RC drill holes for 1137 m with 14 holes (969 m) being in and around the historic Lloyds mine. Development RC drilling has been completed and the resource estimate is pending. Drill highlights include:

- 1 m @ 1.50% Cu (including 6 m @ 2.55% Cu)
- 7 m @ 1.72% Cu
- 4 m @ 1.60% Cu

Northern Territory

Redbank Copper Ltd announced drill results from its flagship Redbank project in the McArthur Basin. The aim of the recent drilling was to test the interpreted geological model which can be used to guide further work. Drilling confirms broad copper sulphide mineralisation within breccia pipe structures. High-grade mineralisation was shown to be continuous between drill sections. Drill intercepts include:

- 68 m @ 1.21% Cu (including 21 m @ 2.24% Cu)
- 12 m @ 1.39% Cu
- 56 m @ 1.21% Cu
- 25 m @ 2.12% Cu

Thundelarra Ltd reported results from a drilling program at Allamber project near Pine Creek. The program comprised 21 RC drill holes, for a total of 3482 m. The program was designed to test seven prospects within the project area with holes drilled at the Swamp Donkey, Hattrick, Nipper, Ox-Eyed Herring, North Brumby, Sulphur Hill and Cliff South prospects. Drill results include:

- 8 m @ 2.71% Cu (including 5 m @ 4.23% Cu)
- 2 m @ 6.86% Cu

Metals X Ltd advised it had received results from the first two holes of a seven-hole program at the Rover 1 prospect, 70 km southwest of Tennant Creek. The objective of the drilling was to extend the indicated portion of the higher-grade copper and gold resource below its current base to allow mining studies to proceed with greater confidence. Intercepts of high-grade copper, gold, bismuth and cobalt have been received. Diamond drilling intercepted:

- 20.87 m @ 14.5 g/t Au, 6% Cu, 0.22% Bi and 0.08% Co (including 5.27 m @ 48.3 g/t Au, 9.45% Cu, 0.30% Bi and 0.06% Co)
Queensland

Altona Mining Ltd announced the results of a 22-hole, 2778 m RC drilling campaign at the Turkey Creek deposit at the Cloncurry project near Mt Isa. Turkey Creek is located 1.5 km east of the planned Little Eva mine. The drilling program has extended the deposit by an additional 600 m in length to over 1.8 km and has identified mineralisation down dip extending to 150 m true depth below surface. Drill results include:

Oxide mineralisation

- 44 m @ 1.09% Cu (including 23 m @ 1.50 % Cu)
- 64 m @ 0.58% Cu (including 18 m @ 0.74% Cu)

Sulphide mineralisation

- 30 m @ 0.52% Cu (including 17 m @ 0.72% Cu)
- 63 m @ 0.49% Cu (including 12 m @ 0.93% Cu)

South Australia

Adelaide Resources Ltd reported results from a drilling program at Alford West within the Moonta project situated 150 km north of Adelaide on the northern Yorke Peninsula. Drilling comprised 12 holes for a total of 1069 m with seven holes drilled at the Bruce zone and five holes drilled at the Six Ways zone. The Bruce zone has now been defined over a strike length of 750 m and remains open to the west. Drill results at the Bruce zone include:

- 25 m @ 0.39% Cu
- 24 m @ 0.39% Cu

MMG Exploration Pty Ltd and Havilah Resources NL reported final assay results for 15 diamond drill holes for a total 4514 m at Curnamona Craton. Drilling on the Birksgate prospect had identified a new zone of copper mineralisation and nine of the ten holes at the Eurinilla dome prospect have intersected a Kalkaroo style copper-gold mineralised horizon. Drill results include:

Birksgate prospect

- 10.9 m @ 0.84% Cu, 0.64 g/t Au, 5.4 g/t Ag, 493 ppm Mo and 186 ppm U (including 2 m @ 2.84% Cu, 0.61 g/t Au, 10.8 g/t Ag, 453 ppm Mo and 183 ppm U)

Eurinilla dome prospect

- 6 m @ 5.3% Cu

Monax Mining Ltd announced results received for a drill hole at Punt Hill copper-gold project. The area tested by the drilling was identified as requiring follow up drilling based on newly acquired gravity data and geological reinterpretation of previous encouraging drill holes from the Groundhog prospect. Drill results include:

- 96 m @ 0.47% Cu, 0.12 g/t Au and 5.3 g/t Ag (including 26 m @ 1.0% Cu, 0.23 g/t Au and 8.5 g/t Ag)

Tasmania

Greatland Gold plc announced results from drilling at Firetower West. A single deep drill hole targeted an induced polarisation (IP) anomaly approximately 800 m long and up to 400 m wide. Disseminated and semi-massive sulphide mineralisation was intersected. Analytical results include:

- 1 m @ 1.34% Cu, 2.6 g/t Ag and 0.16 g/t Au

Victoria

Navarre Minerals Ltd announced broad intervals of copper and gold mineralisation from an RC-drilling program testing the first of three IP geophysics targets at the Eclipse copper-gold prospect in the Miga Arc region, 300 km northwest of Melbourne. Broad zones of gold and copper intersected include:

- 136 m @ 0.3 g/t Au
- 107 m @ 0.2% Cu

Western Australia

Platypus Minerals Ltd reported the discovery of porphyry-related mineralisation at the Gobbos prospect, situated 50 km northeast of Nullagine in the East Pilbara region. Each of the holes in the 33-hole reconnaissance RC-drilling program intersected mineralisation over an area in excess of 1 km x 0.5 km. In each hole, mineralisation started at surface and extended with varying intensity throughout the entire length. The mineralised zone remains open in all directions, including at depth. Drill results include:

- 29 m @ 0.22% Cu and 0.03% W
- 32 m @ 0.07% Mo

Caravel Minerals Ltd advised results from an extensive RC-drilling program comprising 42 holes for 7618 m, at its Calingiri project 120 km northeast of Perth. The drilling has defined wide, shallow extensions at Bindi, a new mineralised zone at Opie and multiple new zones of mineralisation at Ninan. The latest drilling results have increased the estimated size and economic potential of this project. Drill results include:

Bindi

- 150 m @ 0.39% copper equivalent (CuEq) (including 16 m @ 0.69% CuEq)
- 100 m @ 0.49% CuEq (including 46 m @ 0.65% CuEq)

Opie

- 122 m @ 0.37% CuEq (including 4 m @ 1.98 CuEq)
- 54 m @ 0.35% CuEq

Ninan

- 126 m @ 0.40% Cu (including 50 m @ 0.68% Cu)
Examples of Major Mineral Exploration Results 2014–15

**Julius Discovery**
- 7.8 m (true width) @ 10.1% Zn, 2.5% Cu, 99 g/t Ag, 1.1 g/t Au

**Blackmans**
- Matilda

**Hancock Ranges**
- Beatons Creek 126 m @ 60.28% Fe
- Wonmunna (Ascor Resources) 28.9 Mt @ 58% Fe

**Dusk til Dawn**
- (Doray Minerals Ltd)

**Yarraloola**
- (Coziron Resources Ltd)
- (Metaliko Resources Ltd)
- (Sheffield Resources Ltd)
- (Novo Resources Corp)

**Calingiri**
- Bonnie Vale
- Lake Johnston
- (Ramelius Resources Ltd)
- (Coziron Resources Ltd)
- (Sheffield Resources Ltd)
- (Novo Resources Corp)
- (Lodestar Minerals Ltd)
- (Saracen Mineral Holdings Ltd)
- (Volta Mining Ltd)
- (Doray Minerals Ltd)

**Nanadie**
- 29 m @ 0.22% Cu, 0.03% W

**Yangibana**
- 468 000 t @ 8.1 g/t Au
- 5 m @ 17.4 g/t Au
- 700 000 t @ 2.17 g/t Au
- 2.3 m @ 4.1% Ni

**Lanfranchi**
- (Panoramic Resources Ltd)
- 6.73 m @ 4.81% Ni

**Baloo**
- (Sirus Resources Nl) 49 m @ 2.69 g/t Au

**Nabarlek**
- (Uranium Equities Ltd) 7 m @ 2680 ppm U3O8

**Beatrice**
- (Aligator Energy Ltd) 19 m @ 3626 ppm U3O8

**Allamber**
- (Thundelarra Ltd) 8 m @ 2.71% Cu

**Iron Blow**
- (Phoenix Copper Ltd) 50.39 m @ 10.12% Zn, 2.66 g/t Ag, 283 g/t Ag, 0.57% Cu, 1.39% Pb

**Golden Honcho**
- (Art Minerals Ltd) 2 m @ 21 g/t Au

**Succoth**
- (Cassini Resources Ltd) 118 m @ 0.66% Cu, 0.06% Ni, 0.16 g/t PGE

**Babel**
- (Cassini Resources Ltd) 52 m @ 0.52% Ni, 0.54% Cu, 0.30 g/t PGE

**Yangibana**
- (Hasting Rare Metals Ltd) 3.4 Mt @ 1.34% total rare earth oxides

**Thunderbox**
- (Barosa Mineral Holdings Ltd) 40 m @ 1.8 g/t Au

**Bentley Mine**
- (Independence Group NL) 7.8 m (true width) @ 10.1% Zn, 2.5% Cu, 99 g/t Ag, 1.1 g/t Au

**Calingiri**
- (Caravel Minerals Ltd)
- (Independence Group NL)
- (Panoramic Resources Ltd)
- (Mincor Resources NL)
- (Independence Group NL)

**Windsor**
- (Sun River Resources Ltd)
- (Gold Road Resources Ltd)
- (Rimfire Pacific Mining NL)
- (Alkane Resource Ltd)
- (Heron Resources Ltd)
- (Kidman Resources Ltd)
- (Greatland Gold plc)
- (Catalyst Metals Ltd)
- (Metals X Ltd)
- (Redbank Copper Ltd)
- (Aeon Metals Ltd)
- (Kidman Resources Ltd)
- (Catalyst Metals Ltd)

**Firetower West**
- (Four Eagles Minerals Ltd)
- (Thundelarra Ltd)
- (Ark Mines Ltd)
- (Cassini Resources Ltd)
- (Alligator Energy Ltd)
- (Uranium Equities Ltd)
- (Thundelarra Ltd)
- (Ark Mines Ltd)

**Alford West**
- (Caravel Minerals Ltd)
- (Mincor Resources NL)
- (Independence Group NL)
- (Panoramic Resources Ltd)
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Julius Discovery
7.8 m @ 10.1% Zn, 2.5% Cu, 99 g/t Ag, 1.1 g/t Au

Gobbos
Beatons Creek (Blackham Resources Ltd)
Mt Vettel (Doray Minerals Ltd)

Bulletin South (Metaliko Resources Ltd)
(Ramelius Resources Ltd)

Calingiri
Bonnie Vale
Pilbara

3.4 Mt @ 1.34% total rare earth oxides

Mt Bevan (Ramelius Resources Ltd)

Coziron Resources Ltd
Sheffield Resources Ltd
Lodestar Minerals Ltd
Saracen Mineral Holdings Ltd
Volta Mining Ltd
Doray Minerals Ltd
Flinders Mines Ltd
Ascot Resources
Atlas Iron Ltd

Nanadie
Tychean Resources Ltd
Yangibana

Lanfranchi
Legacy Iron Ore Ltd
Focus Minerals Ltd

Bentley Mine
700 000 t @ 2.17 g/t Au
Neometals Ltd
6 m @ 6.6 g/t Au
490 000 t @ 2.5 g/t Au
Cassini
126 m @ 60.28% Fe
142 m @ 58.45% Fe
Baloo
28.9 Mt @ 58% Fe
4 m @ 15.51 g/t Au
73 Mt @ 53.9% Fe
6 m @ 8.77 g/t Au
30 m @ 63.4% Fe
91 m @ 25.4% Fe
5 m @ 8.89 g/t Au
34 m @ 57.48% Fe
13 m @ 5.06 g/t Au
44 m @ 0.25% Ni
40 m @ 1.8 g/t Au
Independence Group NL
6.10 m @ 5.73% Ni
6.73 m @ 4.81% Ni
49 m @ 2.69 g/t Au
50.39 m @ 10.12% Zn, 2.66 g/t Au, 283 g/t Ag, 0.57% Cu, 1.39% Pb
Succoth
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52 m @ 0.52% Ni,
(Cassini Resources Ltd)

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Gold

New South Wales

Rimfire Pacific Mining NL reported gold and silver results from the first five holes of a 10-hole RC-drilling program at the Roadside and Boundary Gate areas within the Sorpresa mineralised system at Fifield. The drilling program is designed to infill known mineralised areas of the Sorpresa system. Drill results include:

- 18 m @ 7.79 g/t Au and 127 g/t Ag (including 4 m @ 26.7 g/t Au and 289 g/t Ag)

Unity Mining Ltd reported on an exploration RC-drilling program at Booth’s Reward. The 6-hole 567 m program was designed to test the continuity of mineralised structures around historic working and previous drilling campaigns. Mineralisation remains open up dip, down dip and along strike in both directions. The best drill intersection for the program is:

- 20 m @ 2 g/t Au (including 3 m @ 6.6 g/t Au and 1 m @ 12.5 g/t Au)

Alkane Resource Ltd reported on a 1516 m scout RC-drilling program at the Elsienora project. The program investigated surface geochemical and geological targets. Two zones of mineralisation were identified from the program: the Cuddyong prospect and the Picker prospect. Drill results include:

Cuddyong
- 29 m @ 1.53 g/t Au (including 4 m @ 5.86 g/t Au)

Picker
- 18 m @ 0.44 g/t Au, 5.4 g/t Ag and 0.18% Ba
- 8 m @ 0.55 g/t Au, 23.2 g/t Ag and 0.24% Ba (including 3 m @ 0.94 g/t Au, 32.5 g/t Ag and 0.24% Ba)

Northern Territory

Ark Mines Ltd reported the completion of an exploration drilling program at the Golden Honcho prospect at Frances Creek. The program comprised 26 inclined drill holes for 1050 m with 24 holes intersecting gold mineralisation. Drill intersections include:

- 2 m @ 21 g/t Au
- 2 m @ 11.9 g/t Au
- 2 m @ 10.5 g/t Au
Queensland
Zamia Metals Ltd reported on a 4-hole RC drilling program for 822 m at the Belyando project. The drilling has identified elevated gold of up 500 ppb in a previously unknown southeast extension to the mineralised system. New intercepts demonstrate the potential for continuous mineralisation down dip and along strike of the mined deposit. Drill results include:
• 70 m @ 0.7 g/t Au

Victoria
Catalyst Metals Ltd reported an air core (AC) drilling program of 27 holes for 3944 m at the Four Eagles project. The drilling intersected two broad zones of gold mineralisation at the Hayami prospect and extended the previously reported mineralised zone. Drilling results include:
• 42 m @ 2.12 g/t Au (including 21 m @ 3.42 g/t Au)
• 24 m @ 2.31 g/t Au (including 15 m @ 3.36 g/t Au)

Western Australia
Doray Minerals Ltd and Alloy Resources Ltd reported results from a reconnaissance AC-drilling program at the Dusk til Dawn prospect at the Horse Well project. The program identified extensive gold mineralisation at shallow depths within the target area. A strong intersection of mineralisation 200 m northwest along strike of previous reconnaissance drilling was identified. A new zone of mineralisation parallel to and 250 m west of Dusk til Dawn was discovered. Drill results include:
• 8 m @ 7.99 g/t Au
• 8 m @ 1.01 g/t Au
• 8 m @ 1.29 g/t Au

Tychean Resources Ltd reported assay results form an RC drilling program at Redback and Trapdoor prospects in the Eastern Goldfields. The program comprised 28 holes for 3961 m and was designed to follow up significant results and mineralised trends identified in previous drilling. Mineralisation has now been intersected over a strike of 100 m and drill results include:
• 4 m @ 7.46 g/t Au
• 3 m @ 17.5 g/t Au

Echo Resources Ltd reported a drilling program at the Julius Discovery. The drilling confirmed the presence of gold in oxide and fresh rock units and identified a significant width of gold mineralisation with drill results of:
• 6 m @ 6.6 g/t Au (including 2 m @ 13.5 g/t Au)
• 3 m @ 4.4 g/t Au (including 1 m @ 7.2 g/t Au)

Lodestar Minerals Ltd reported results from an AC drilling program targeting auger drill hole anomalies at the Contessa prospect. Drilling identified widespread mineralised intersects beneath auger anomalies. Results include:
• 5 m @ 8.89 g/t Au
• 5 m @ 2.15 g/t Au
• 10 m @ 1.89 g/t Au

Gold Road Resources Ltd announced initial assays from the recently completed 901-hole (42 285 m) AC drilling program at Sun River-Wanderrie that identified high-grade gold mineralisation in multiple drill holes. These intercepts occurred in two locations indicating potential for two prospective mineralised gold trends. The program aimed to test the 10 km strike length of the Sun River-Wanderrie target. Drill results include:
• 7 m @ 9.55 g/t Au (including 4 m @ 15.46 g/t Au)

Excelsior Gold Ltd reported results from a 374 m development RC drilling program at the Bulletin South deposit within the Kalgoorlie North project. The program was designed to test the mineralisation beneath the shallower northern end of the conceptual open-pit designs. The drilling results identified extensions to the mineralisation at the northern end of the potential open pit with the holes intersecting gold mineralisation immediately below the preliminary pit design. Drill results include:
• 13 m @ 5.06 g/t Au
• 7 m @ 4.91 g/t Au

Focus Minerals Ltd reported the high-grade assay results for its recently completed drilling of Bonnie Vale in Coolgardie. The drilling comprised nine RC holes totalling 1865 m and was designed to test the extension of the high-grade quartz reefs defined from previous drilling. Seven of the holes intersected high-grade gold mineralisation with results yielding:
• 7 m @ 22.06 g/t Au
• 4 m @ 18.84 g/t Au
• 5 m @ 21.54 g/t Au
Sirius Resources NL advised it had discovered a zone of gold mineralisation at the Baloo prospect on the Polar Bear project. Wide-spaced (100 m x 40 m) AC drilling on a gold target at the northern end of the project identified gold mineralisation at the Baloo prospect. The mineralisation occurs beneath a thin veneer of salt lake sediment, is up to 100 m wide, and has so far been defined over a north-south trending strike of at least 500 m. It is open along strike to the north and south. Key intersections include:

- 49 m @ 2.69 g/t Au (including 33 m @ 3.81 g/t Au)
- 68 m @ 1.13 g/t Au (including 4 m @ 8.13 g/t Au)

Saracen Mineral Holdings Ltd provided an update on exploration activities at the Thunderbox projects. Drilling at the Thunderbox deposit focused on resource infill, geotechnical and deep exploration at Zone A. Resource infill drilling returned results in line with the current resource interpretation and estimation. The high-grade core of Zone A has been extended to the south by up to 70 m and by some 125 m down plunge within the zone. Mineralisation intersected in the drilling was consistent with previous alteration and veining. Results include:

- 40 m @ 1.8 g/t Au
- 35 m @ 2.3 g/t Au
- 35 m @ 1.7 g/t Au

Ramelius Resources Ltd announced assay results from RC drilling completed at the Blackmans gold project. A total of 1957 m was drilled from 29 holes. The latest round of drilling was specifically designed to test the top 20 m below the >0.5 g/t Au mineralised laterite blanket as well as test for deeper plunge continuity of the higher-grade mineralised shoots within the Eastern Lode. Gold mineralisation at Blackmans is traceable over a 350 m strike and is associated with a 2 m to 4 m thick blanket of surficial transported laterite overlying at least two subparallel steeply dipping lodes developed in oxidised ultramafic schists and clays. Gold mineralisation within the Eastern Lode remains open down dip and down plunge. Drill results include:

- 5 m @ 4.65 g/t Au
- 7 m @ 2.86 g/t Au
- 4 m @ 15.51 g/t Au
- 5 m @ 10.04 g/t Au

Novo Resources Corp announced assay results from 121 RC drill holes at its Beatons Creek project near Nullagine. The gold intercepts all occur in thoroughly oxidized conglomerate horizons starting within 11 m of the surface. Intercepts include:

- 6 m @ 8.77 g/t Au
- 3 m @ 2.59 g/t Au
- 1 m @ 6.74 g/t Au

Doray Minerals Ltd announced a number of high-grade gold results from the maiden drilling campaign of eight RC holes drilled for 1404 m at its 88% owned Gnaweeda project (12% Chalice Gold Mines Ltd) adjacent to the Andy Well gold project in the northern Murchison region. Results include:

- 3 m @ 10.1 g/t Au
- 5 m @ 17.4 g/t Au
- 4 m @ 17.9 g/t Au
Iron Ore

Western Australia

Flinders Mines Ltd announced that high-grade, near-surface bedded iron deposit (BID) mineralisation had been intersected in drilling at the Pilbara Iron Ore project in areas outside the project’s currently defined resource. A total of 67 RC drill holes were completed. All of these intersections are from surface and have extremely low levels of SiO₂ and Al₂O₃. Drill results include:

- 30 m @ 63.4% Fe
- 26 m @ 60.2% Fe
- 22 m @ 58.8% Fe

Legacy Iron Ore Ltd reported on the Phase 4 direct shipping ore (DSO) RC drilling program being carried out at the Mt Bevan iron ore project. The program comprised 18 holes for 1601 m and targeted the Mt Mason North prospect where earlier RC drilling intersected thick intersections of DSO hematite. Drill results include:

- 34 m @ 57.48% Fe
- 18 m @ 61.27% Fe

Volta Mining Ltd reported a 4-hole (474 m) RC drilling program at the Sirius Extension prospect in the Hancock Ranges project. This deposit is classified as a supergene-enriched BID-style that consists of haematite and haematite-goethite ore hosted in banded iron formation (BIF) in the lower sections of the Boolgeeda Iron Formation. Bedded iron ore mineralisation of DSO grade was intersected in all four drill holes. Mineralisation occurs from the surface to 128 m vertical depth. Drill results include:

- 14 m @ 60.93% Fe
- 126 m @ 60.28% Fe
- 30 m @ 63.99% Fe
- 54 m @ 60.25% Fe

Atlas Iron Ltd announced RC drilling results from the recently discovered Glen Herring prospect at the Corunna Downs project in the North Pilbara. The drilling returned thick intersections of low-phosphorus, low-alumina DSO at the northern end of the emerging Corunna Downs corridor, outside the current resource and exploration target area. Results include:

- 142 m @ 58.45% Fe
- 138 m @ 59.32% Fe
- 116 m @ 58.55% Fe
- 96 m @ 59.71% Fe

Figure 8 Selected, iron, nickel, platinum group elements and uranium exploration results, 2014–15.
Coziron Resources Ltd announced it had discovered a new style of magnetite mineralisation from its initial exploration drilling in the Ashburton Schist at the Yarraloola project. Three RC drill holes for 606 m intersected magnetite mineralisation hosted mainly by chloritic and schistose intermediate-to-rhyolitic volcanics and carbonaceous phyllite. Drill results include:

- 91 m @ 25.4% Fe
- 29 m @ 31.9% Fe
- 55 m @ 31.8% Fe

Sheffield Resources Ltd announced results from RC drilling at the Mt Vettel iron prospect, located 150 km from Port Hedland in the Pilbara region. The drilling tested an outcropping zone of bedded and detrital iron mineralisation up to 1 km long and between 15 m and 150 m wide, previously outlined by mapping and rock chip sampling. Drill results include:

- 8 m @ 58.3% Fe
- 20 m @ 52.9% Fe (including 8 m @ 58.0% Fe)
- 14 m @ 57.5% Fe
- 6 m @ 57.2% Fe

Nickel

Western Australia

Cassini Resources Ltd announced assay results from a recent drill program targeting the Babel deposit within the West Musgrave project. The program confirmed wide zones of continuous mineralisation with nickel and copper mineralisation at shallow depths, often less than 10 m below the surface. The latest drilling results include better intercepts of:

- 52 m @ 0.52% Ni, 0.54% Cu and 0.30 g/t PGE
- 42 m @ 0.41% Ni, 0.50% Cu and 0.26 g/t PGE
- 18 m @ 0.47% Ni, 0.50% Cu and 0.25 g/t PGE

Mincor Resources NL reported exploration results at Cassini and Voyce prospects and the Durkin deposit in the Kambalda region. A drilling program identified high-grade nickel intersections at each of the deposits. Drill results include:

- Cassini
  - 6.73 m @ 4.81% Ni

- Voyce
  - 8.81 m @ 7.72% Ni

- Durkin North
  - 2.39 m @ 6.45% Ni

Neometals Ltd announced results from a drilling program conducted at the Lake Johnston project, located in the Yilgarn region. Results from the drilling have confirmed thick intersections of nickel anomalies in the project and include:

- 44 m @ 0.25% Ni

Panoramic Resources Ltd announced results from a discovery diamond drill hole at Lanfranchi. The hole identified a potentially significant new zone of high-grade nickel sulphide mineralisation down-plunge of the Schmitz orebody. The drill hole intersected three mineralised zones, containing both high-grade massive sulphide mineralisation and moderate-grade zones of stringer and strong matrix mineralisation. The style and grade of mineralisation is very similar to the Schmitz orebody located up-plunge to the north. Assay results for the first two significant intercepts include:

- 6.10 m @ 5.73% Ni
- 6.80 m @ 5.02% Ni

Rox Resources Ltd reported results from an RC and diamond drilling program at Fisher East project located 500 km north of Kalgoorlie. Diamond drilling results intersected new mineralisation to the north and at depth from the current resource. New results include:

- 2.3 m @ 4.1% Ni
- 5.1 m @ 2.0% Ni
- 8.6 m @ 1.4% Ni (including 2.9 m @ 2.2% Ni)
Enterprise Metals Ltd reported assay results from six drill holes completed at Plato South prospect at the Frasers Range project. The drill program comprised six RC holes for 1439 m with the aim of testing several ground EM conductors located on the southern margin of the Plato prospect. The Plato nickel-copper corridor had been expanded to 1400 m x 500 m and is still open to the north and south. Assay results include:

- 8 m @ 2314 ppm Ni, 267 ppm Cu and 839 ppm Co

Mount Ridley Mines Ltd announced it had identified primary nickel and copper sulphides from AC drilling at the Mt Ridley project in the Albany-Fraser Range province. Primary disseminated nickel sulphides were identified in minor amounts in ten holes from two separate olivine-bearing intrusions. This drilling program was designed to test several high-priority aeromagnetic intrusive-style targets. Drilling was conducted as single traverses on existing cleared tracks and gridlines at very broad spacing with lines up to several kilometres apart. Drill intersections include:

- 19 m @ 0.31% Ni and 178 ppm Cu (including 6 m @ 0.56% Ni and 421 ppm Cu)
- 23 m @ 0.29% Ni and 110 ppm Cu

St George Mining Ltd announced assay results from a drilling campaign have confirmed numerous intersections of nickel-sulphide and base-metal mineralisation at the Windsor prospect within the East Laverton property. Four of the six drill holes successfully intersected nickel sulphides and all six holes intersected the thick, highly prospective komatiite channel that hosts this mineralisation. Drill results include:

- 89 m @ 0.20% Ni (including 2 m @ 0.40% Ni)
- 147 m @ 0.25% Ni (including 7 m @ 0.34% Ni and 1 m @ 0.40% Ni)
- 90 m @ 0.20% Ni (including 1 m @ 0.75% Ni)

Platinum Group Elements

New South Wales

Impact Metals Ltd reported on a maiden drilling program at the Red Hill prospect near Broken Hill. This 6-hole (962.3 m) diamond-drilling program confirmed the discovery of a near-surface zone of mineralisation that contains high-grade PGE together with nickel and copper. The assays results from this drilling have defined upper and lower zones of mineralisation. Results include:

Upper zone
- 5.2 m @ 1.1% Cu, 1.6% Ni, 3.4 g/t Pt-Pd-Au and 7 g/t Ag

Lower zone
- 13.8 m @ 1.1% Cu, 0.3% Ni, 6.3 g/t Pt-Pd-Au and 10 g/t Ag within a broader intercept of bulk mineable width of
  - 25.5 m @ 0.8% Cu, 0.6% Ni, 4.3 g/t Pt+Pd+Au and 7 g/t Ag

Western Australia

Cassini Resources Ltd announced assay results from a drill program at the Succoth prospect within the West Musgrave project. Results from two infill holes at Succoth have returned large thicknesses of copper mineralisation, demonstrating a coherent central mineralised zone with over 500 m of strike, 100 m wide (true width) to a depth of 300 m. There is significant potential for the strike length to be increased with mineralised intercepts over a 3 km strike. Assay results include:

- 118 m @ 0.66% Cu, 0.06% Ni and 0.16 g/t PGE (including 22 m @ 1.08% Cu, 0.09% Ni and 0.24 g/t PGE)
- 82 m @ 0.83% Cu, 0.11% Ni and 0.19 g/t PGE (including 8 m @ 2.25% Cu, 0.50% Ni and 0.47 g/t PGE)

Mithril Resources Ltd advised that the recently completed Nanadie Well RC-drilling program had confirmed the Stark prospect as an emerging discovery. Downhole EM surveying carried out after the drilling confirmed that the sulphides intersected in the drill holes are the source of the original ground EM conductors and that there are a number of strong off-hole conductors that require follow-up testing as a priority. Drill results include:

- 16 m @ 0.81% Cu, 0.09% Ni and 0.39 g/t PGE (including 4 m @ 1.91% Cu, 0.18% Ni and 0.39 g/t PGE)
- 13 m @ 0.44% Cu, 0.08% Ni and 0.24 g/t PGE (including 2 m @ 1.04% Cu, 0.18% Ni and 0.49 g/t PGE)
Uranium

Northern Territory

Uranium Equities Ltd reported results from a 31-hole (4757 m) RC drilling program targeting high-grade prospects at the Nabarlek project. Results included some individual high grades of up to 6000 ppm (0.6%) U₃O₈. Drill results include:

- 7 m @ 2680 ppm U₃O₈ (including 3 m @ 5216 ppm U₃O₈)
- 6 m @ 1336 ppm U₃O₈ (including 1 m @ 6073 ppm U₃O₈)

Alligator Energy Ltd provided an update on work undertaken on the Beatrice project. The Beatrice project is a Joint Venture between Alligator and Cameco Australia Pty Ltd. Three historical diamond drill holes drilled by Cameco in 2009 at the Beatrice Prospect have been sampled and assayed by Alligator on a systematic basis. The holes were sampled on one metre intervals through the zones identified as radiogenic by Cameco using downhole gamma probe techniques supported by intermittent laboratory analysis. Analyses returned an interval of:

- 19 m @ 3626 ppm U₃O₈

South Australia

Alliance Resources Ltd announced uranium intercepts from drilling at the Four Mile Project. A total of 54 delineation holes were completed at Four Mile East. A single core hole of 195 m was also completed within the area. Twenty-two holes returned significant uranium intersections. Significant uranium intersections include:

- 3.2 m @ 1.40% pU₃O₈
- 2.4 m @ 0.58% pU₃O₈

* pU₃O₈ is the equivalent grade as estimated from Prompt Fission Neutron (PFN) logging

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