**Exploration Expenditure Review**

- Mineral exploration expenditure (non-petroleum) for the 2015–16 financial year was $1421.1 million (Figure 1).
- Exploration expenditure in and around known deposits (brownfield) was $1009.4 million and expenditure for undiscovered mineralisation in frontier regions (greenfield) was $411.7 million. Brownfield drilling totalled 4,844,100 metres (m) and greenfield drilling totalled 1,508,300 m (Figure 2).
- Exploration expenditure by jurisdiction in 2015–16 was: Western Australia $871.0 million, Queensland $231.4 million, New South Wales $123.5 million, Northern Territory $100.8 million, South Australia $50.6 million, Victoria $28.9 million and Tasmania $13.4 million (Figure 3).
- Exploration expenditure by commodity in 2015–16 was: gold $548.1 million, iron ore $291.2 million, coal $173.4 million, copper $130.4 million, minor commodities (such as manganese, molybdenum, phosphate, tin, tungsten and vanadium) $112.6 million, cobalt and nickel $50.6 million, silver-lead-zinc $49.9 million, uranium $38.3 million, mineral sands @20.0 million and diamonds 4.3 million (Figure 1).

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**Figure 1** Australian mineral exploration expenditure (based on Australian Bureau of Statistics data, June 2016).
Figure 2  Greenfield and brownfield expenditure and drilling – Financial year series (based on Australian Bureau of Statistics data, June 2016).

Figure 3  Exploration expenditure by jurisdiction – Financial year series (based on Australian Bureau of Statistics data, June 2016).
Maiden JORC Resources Announcements

Maiden Resources and Reserves were announced across Australia for many mineral commodities in 2015–16 (Figure 4) and are detailed in Table 1.

Table 1 Maiden Resource and Reserve announcements.

<table>
<thead>
<tr>
<th>Deposit</th>
<th>Company</th>
<th>State</th>
<th>Type</th>
<th>Resource Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bald Hill</td>
<td>Eyre Iron JV</td>
<td>SA</td>
<td>Inferred</td>
<td>289 Mt @ 26.8% Fe (magnetite)</td>
</tr>
<tr>
<td>Maronan</td>
<td>Red Metal Ltd</td>
<td>Qld</td>
<td>Inferred</td>
<td>30.8 Mt @ 6.5% Pb and 106 g/t Ag</td>
</tr>
<tr>
<td>Ganymede</td>
<td>Dacian Gold Ltd</td>
<td>WA</td>
<td>Inferred</td>
<td>26.6 Mt @ 1.3 g/t Au for 108 000 oz Au</td>
</tr>
<tr>
<td>Succoth</td>
<td>Cassini Resources Ltd</td>
<td>WA</td>
<td>Inferred</td>
<td>156 Mt @ 0.6% Cu for 943 000 t contained Cu</td>
</tr>
<tr>
<td>Bonnie Vale</td>
<td>Focus Minerals Ltd</td>
<td>WA</td>
<td>Indicated</td>
<td>215 000 t @ 16.9 g/t Au for 117000 oz Au</td>
</tr>
<tr>
<td>Magic</td>
<td>Broken Hill Prospecting Ltd</td>
<td>NSW</td>
<td>Inferred</td>
<td>15 Mt @ 3.7% HM</td>
</tr>
<tr>
<td>Copi North</td>
<td>Broken Hill Prospecting Ltd</td>
<td>NSW</td>
<td>Inferred</td>
<td>11.6 Mt @ 6.9% HM</td>
</tr>
<tr>
<td>Burbanks</td>
<td>Kidman Resources Ltd</td>
<td>WA</td>
<td>Indicated and Inferred</td>
<td>550 000 t @ 5.6 g/t Au for 99 000 oz Au</td>
</tr>
<tr>
<td>Oxley</td>
<td>Cetrix Metals Ltd</td>
<td>WA</td>
<td>Inferred</td>
<td>155 Mt @ 8.3% potassium oxide</td>
</tr>
<tr>
<td>Gloster</td>
<td>Regis Resources Ltd</td>
<td>WA</td>
<td>Reserve</td>
<td>7 Mt @ 1 g/t Au for 226 000 oz Au</td>
</tr>
<tr>
<td>Pilgangoora</td>
<td>Pilbara Minerals Ltd</td>
<td>WA</td>
<td>Reserve</td>
<td>29.5 Mt @ 1.31% lithium oxide</td>
</tr>
<tr>
<td>Baneygo</td>
<td>Regis Resources Ltd</td>
<td>WA</td>
<td>Reserve</td>
<td>3.6 Mt @ 1.16 g/t Au for 136 000 oz Au</td>
</tr>
<tr>
<td>Mount Bonnie</td>
<td>PNX Metals Ltd</td>
<td>NT</td>
<td>Inferred and Indicated</td>
<td>1.3 Mt @ 4.2% Zn, 1.3 g/t Au, 133 g/t Ag, 1.3% Pb and 0.3% Cu</td>
</tr>
<tr>
<td>Thunderbird</td>
<td>Sheffield Resources Ltd</td>
<td>WA</td>
<td>Reserve</td>
<td>683 Mt @ 11.3% HM</td>
</tr>
<tr>
<td>Wee McGregor</td>
<td>Argosy Minerals Ltd</td>
<td>Qld</td>
<td>Inferred</td>
<td>1.65 Mt @ 1.6% Cu</td>
</tr>
<tr>
<td>Lake Wells</td>
<td>Salt Lake Potash Ltd</td>
<td>WA</td>
<td>Measured, Indicated and Inferred</td>
<td>29 Mt SOP</td>
</tr>
<tr>
<td>Gunga West</td>
<td>Kidman Resources Ltd</td>
<td>WA</td>
<td>Indicated and Inferred</td>
<td>1.3 Mt @ 1.7 g/t Au for 73 000 oz Au</td>
</tr>
<tr>
<td>Oakdale</td>
<td>Oakdale Resources Ltd</td>
<td>SA</td>
<td>Indicated and Inferred</td>
<td>6.2 Mt @ 4.8% TGC</td>
</tr>
<tr>
<td>Siviour</td>
<td>Renascor Resources Ltd</td>
<td>SA</td>
<td>Indicated and Inferred</td>
<td>16.8 Mt @ 7.4% TGC for 1.24 Mt of contained graphite</td>
</tr>
<tr>
<td>Teena</td>
<td>Rox Resources Ltd and Teck Resources Ltd</td>
<td>NT</td>
<td>Inferred</td>
<td>58 Mt @ 17.7% Zn and Pb for 7.4 Mt of contained Zn and Pb</td>
</tr>
<tr>
<td>Jack Trade</td>
<td>Iluka Resources Ltd</td>
<td>WA</td>
<td>Inferred</td>
<td>18.8 Mt @ 4.7% HM</td>
</tr>
<tr>
<td>Monty</td>
<td>Sandfire Resources Ltd</td>
<td>WA</td>
<td>Indicated and Inferred</td>
<td>1.05 Mt @ 9.4% Cu and 1.6 g/t Au for 99 000 t contained Cu and 55 000 oz Au</td>
</tr>
<tr>
<td>Julius</td>
<td>Echo Resources Ltd</td>
<td>WA</td>
<td>Indicated and Inferred</td>
<td>4.1 Mt @ 1.69 g/t Au</td>
</tr>
</tbody>
</table>

Selected Exploration Results 2015–16

Exploration results over the period July 2015 to June 2016 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 jurisdictional alphabetical order. The locations of the exploration projects are shown in the associated 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 4 Maiden Resource and Reserve announcements, 2015–16

Figure 5 Selected base metals, copper and copper-gold exploration projects, 2015–16
Base Metals and Silver

New South Wales

Heron Resources Ltd reported on results from the second phase of diamond drilling at the Woodlawn project. The drilling program comprised 5950 m. The initial part of the program tested shallow mineralised positions that have the potential to provide accessible production in the early part of future underground operations and performed the in-fill drilling required to upgrade the Mineral Resource. Drill results from Kate Lens include:

- 20.5 m @ 8.1% Zn, 2.4% Cu, 2.9% Pb, 0.8 g/t Au, 68 g/t Ag (20.7% ZnEq)
- 12.0 m @ 4.7% Zn, 2.2% Cu, 0.8% Pb, 0.8 g/t Au, 22 g/t Ag (13.7% ZnEq)

New Gold Inc provided an update on their exploration program at Peak Mines in Cobar. Exploration discovered two new zones of mineralisation — Chronos and Anjea — both located immediately adjacent to current and past-producing ore deposits. Chronos is a zone of gold-silver-copper-lead-zinc mineralisation located directly above the Perseverance ore body and adjacent to the Peak mill. Anjea is a zone of copper-gold-silver-lead-zinc mineralisation located adjacent to the historic Great Cobar mine and approximately 9 km north of the Peak mill. Drill results include:

- **Chronos**
  - 8.8 m @ 310.2 g/t Au, 466.78 g/t Ag, 0.81% Cu, 5.93% Pb and 0.88% Zn
  - 7.6 m @ 143.1 g/t Au, 1179.76 g/t Ag, 1.23% Cu, 23.99% Pb and 4.44% Zn

- **Anjea**
  - 10.1 m @ 1.25 g/t Au, 23.31 g/t Ag and 6.3% Cu
  - 4.3 m @ 0.22 g/t Au, 125.29 g/t Ag, 0.27% Cu, 17.14% Pb and 22.28% Zn

Helix Resources Ltd announced massive sulphide mineralisation intersected in reverse circulation (RC) drilling at the Collerina prospect. The drilling program was designed to test a down-hole electromagnetic (EM) target. This program has extended the strike of the mineralisation to over 500 m, with the entire system remaining open. Mineralisation has been intersected from surface to a depth of 150 m and remains open down dip and down plunge. Helix is planning further down-hole EM and a diamond drilling program. Results from RC drilling include:

- 21 m @ 3.2% Cu, 1.3% Zn and 0.3 g/t Au
  (including 12 m @ 5% Cu, 2.1% Zn and 0.5 g/t Au)

Impact Minerals Ltd reported on a drilling program at Dora East prospect at Broken Hill. Drilling returned intercepts of zinc-silver-lead mineralisation. Mineralisation remains untested along strike. Drill results include:

- 7 m @ 7.0% Zn, 1.1% Pb and 20.1 g/t Ag (including
  1.6 m @ 22.0% Zn, 3.6% Pb and 66.7 g/t Ag)

Northern Territory

Phoenix Copper Ltd reported on assay results from 12 RC holes drilled at the Mount Bonnie deposit located within the Hayes Creek project in the Pine Creek region. The objective of the drilling program was to define mineralisation beyond the boundaries of historical drilling and test the potential of the deposit to complement the existing resource at the Iron Blow deposit, 3 km to the north. The drilling intersected high-grade massive sulphides over a substantial area with significant gold and silver mineralisation intersected outside the boundaries of massive sulphide mineralisation. Ground EM indicated a northerly extension to known massive sulphide mineralisation. Drill results include:

- 13 m @ 3.63% Zn, 0.86 g/t Au, 154 g/t Ag, 0.16% Cu and 1.38% Pb
- 14 m @ 6.55% Zn, 0.87 g/t Au, 245 g/t Ag, 0.43% Cu and 1.84% Pb

Rox Resources Ltd reported drill results from diamond drilling at the Teena zinc prospect, part of the Reward project. Mineralisation at Teena occurs as lenses that parallel stratigraphy (dip and strike). Two main lenses are present: Lens 1 (the lower lens) and Lens 2 (uppermost). In the positions drilled to date, Lens 2 is generally thicker and higher grade than Lens 1. Drilling intersected high-grade zinc and lead sulphide mineralisation in both lenses:

- **Lens 2**
  - 35.4 m @ 13.2% Zn+Pb (including 21.2 m @ 18.6% Zn+Pb)

- **Lens 1**
  - 12.8 m @ 9.4% Zn+Pb (including 6.8 m @ 12.5% Zn+Pb)

Queensland

Red River Resources Ltd reported on a 2-hole diamond drilling project at the Far West extension target, part of the Thalanga project. Both holes were within an exhalative assemblage that hosts the known mineralisation and intersected zones of massive sulphide mineralisation with visible sphalerite and chalcopyrite. Drilling continues to show excellent potential for establishing additional resources in the Far West extension. Drill results include:

- 1.2 m @ 3.5% Cu, 2.7% Pb, 8.5% Zn, 0.35 g/t Au and 130 g/t Ag
South Australia

Investigator Resources Ltd announced the results of a 60-hole drilling project at the Peterlumbo tenement. The prospects drilled included immediate extensions of the Paris project and several satellite prospects. Initial assessment of the geology and assays received from the drilling indicate a new Paris-style system at Diomedes, 7 km northeast of Paris, and potentially at the undrilled Argos North target, 5 km northwest of Paris. Silver and lead mineralisation was intersected at Diomedes and Argos prospects. Best intersections are:

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

Victoria

Stavely Minerals Ltd reported on assay results for an initial limited program of diamond drilling at the Carroll’s and Forgan’s Find prospects, part of the Ararat project. The drilling identified narrow intervals of massive to stringer sulphides in two diamond drill holes. Down-hole geophysics is planned to identify potential off-hole conductive responses. Drill results include:
- 0.2 m @ 1.77% Zn and 0.12% Cu
- 0.25 m @ 0.57% Zn and 0.13% Cu

Western Australia

Encounter Resources Ltd provided assay results from the recently completed diamond drill program at Millennium. The 5-hole program demonstrated that the targeted zone has significant thickness with continuous and consistent geometry. Drill holes intersected broad zones of gossan with highly elevated zinc anomaly. Assay results from drilling have confirmed broad intervals of weathered zinc mineralisation. Drill results include:
- 91.8 m @ 1.6% Zn (including 26.3 m @ 2.1% Zn)
- 38.7 m @ 0.9% Zn (including 8.6 m @ 2.2% Zn)

Copper (including Copper-Gold)

New South Wales

Rimfire Pacific Mining NL reported assay results from a first-pass regional RC drilling program in the Eclipse Trend and Yoes areas at Fifield. The drilling was designed to investigate surface geochemistry in multiple locations along the 2.2-km strike of the Eclipse Trend mineralisation and north of the Yoes area. Gold and copper anomaly was confirmed at multiple locations on the Eclipse Trend. Down-hole EM will be undertaken to identify conductive responses in the intersected copper mineralisation at Eclipse South to assist with future drill targeting. Yoes North assays have identified gold anomalist 700 m north of previous drilling.

The aggregated Eclipse Trend and Yoes area results may represent the upper or outer parts of a much larger copper-gold system. Drill results include:
- 4 m @ 6.5% Cu, 2.3 g/t Au and 10 g/t Ag (including 2 m @ 10.95% Cu, 3.87 g/t Au and 16.6 g/t Ag)

Strats Resources Ltd provided results from the Phase 1 drill program at Tritton which was designed to test mineralisation continuity below current drilling information and extend the Mineral Resource inventory to a target depth of approximately 1500 m below surface. The Phase 1 drill program totalled 17 holes for 6641 m. Drill results included:
- 36.7 m @ 1.09% Cu
- 15.7 m @ 0.74% Cu
- 77.6 m @ 1.26% Cu (including 16.4 m @ 2.88% Cu)

Peel Mining Ltd reported assay results from a 5-hole extensional drilling program at its 50%-owned flagship Mallee Bull project near Cobar. The drilling was designed to test along strike to the north of previously identified mineralisation. The drilling confirmed new copper mineralisation on the northern edge of the current mineral resource model. Drill results include:
- 62 m @ 3.15% Cu, 42 g/t Ag and 0.28 g/t Au (including 34 m @ 4.6% Cu, 63 g/t Ag and 0.44 g/t Au)

Northern Territory

KGL Resources Ltd reported on a 3D induced polarisation (IP) and magnetotelluric (MT) survey in the Bellbird region at Jervois to search for additional sulphide mineralisation in a poorly tested but highly prospective portion of the 12 km-long mineralised corridor. A strong coincident IP response was modelled at the Rockface prospect extending to a vertical depth of over 400 m, the limit of the survey. The IP anomaly is located under a prominent ironstone ridge with copper occurrences. Drilling intersected intervals of disseminated mineralisation and massive magnetite-chalcopyrite. Diamond drilling intersected a broad interval of high-grade copper mineralisation with results of:
- 13 m @ 2.14% Cu, 12.5 g/t Ag and 0.10 g/t Au
- 2 m @ 2.83% Cu, 10.8 g/t Ag and 0.05 g/t Au

Emmerson Resources Ltd reported drilling results at the Mauretania discovery within its Tennant Creek project. A total of 16 RC holes, two of which had diamond core tails were drilled to enhance geological understanding and identify potential copper and gold mineralisation at depth and along strike. This drilling identified that Mauretania is a multi-element gold, copper and silver discovery. Drill results include:
- 15 m @ 1.67 g/t Au (including 1 m @ 4.16 g/t Au, 2 m @ 2.14 g/t Au and 3 m @ 2.50 g/t Au)
- 14 m @ 1.94% Cu (including 3 m @ 4.22% Cu and 0.12% Bi)
- 3 m @ 1.49% Cu and 4.75 g/t Ag
Queensland

Queensland Mining Corporation Ltd announced results from an RC drilling program in Young Australian, approximately 70 km south of Cloncurry. The program consisted of eight holes for a total of 1112 m to test three new targets outside the existing resources. The drilling intersected copper mineralisation at shallow depth. Highlights from the assay results include:

- 26 m @ 1.56% Cu (including 18 m @ 2.10% Cu)
- 10 m @ 2.95% Cu
- 13 m @ 1.08% Cu
- 20 m @ 0.45% Cu (including 4 m @ 0.96% Cu)

Queensland Mining Corporation Ltd announced the results of a RC-drilling program at Copper Canyon, approximately 25 km south of Cloncurry. The program consisted of 10 holes for a total of 1028 m to follow up drilling undertaken by other companies in the 1990s. The highlights from the drilling results include:

- 37 m @ 0.78% Cu, 0.50 g/t Au and 976 ppm Co (including 8 m @ 2.27% Cu, 1.61 g/t Au and 1237 ppm Co)
- 67 m @ 0.52% Cu, 0.24 g/t Au and 767 ppm Co (including 10 m @ 1.23% Cu, 0.83 g/t Au and 847 ppm Co)

Consolidated Tin Mines Ltd updated drilling results on the Einasleigh Exploration Program. Highlight assays include:

- 22 m @ 1.57% Cu (including 12 m @ 2.3% Cu)
- 14 m @ 1.59% Cu (including 7 m @ 2.08% Cu)
- 4 m @ 3.3% Cu
- 14 m @ 4.3% Zn, 1.6% Pb, 0.3% Cu (including 6 m @ 6.4% Zn, 2.5% Pb and 0.42% Cu)

Chinalco Yunnan Copper Resources Ltd reported on exploration drilling at Native Companion, northwest of Cloncurry. Eight drill holes totalling 1913 m were completed at depths ranging from 144 m to 450 m. Anomalous copper mineralisation was identified from most holes, highlighted by the following assays:

- 34 m @ 0.75% Cu and 0.21 g/t Au
- 12 m @ 0.73% Cu and 0.32 g/t Au
- 12 m @ 0.40% Cu and 0.38 g/t Au

South Australia

Havilah Resources Ltd reported assay results from five RC drill holes at the North Portia project northwest of Broken Hill. High grades of copper were identified associated with chalcopyrite, chalcocite and bornite-rich mineralisation in the lower carbonate stratigraphic interval of the prospective sequence. Drill results included:

- 32 m @ 3.95% Cu and 1.45 g/t Au

This drill hole also contained a long interval of Mo mineralisation:

- 43 m @ 868 ppm Mo

Western Australia

Horseshoe Metals Ltd announced copper assay results from its ongoing resource and exploration drilling program at the Horseshoe Lights project in the Gascoyne region. The assay results come from resource drill holes at the Motters Zone, where copper mineralisation exists at surface, and also the East Lode Mineralisation. Copper mineralisation continues to be intersected outside the existing resource model. Results from nine RC holes at Motters Zone intersected shallow mineralisation including:

- 26 m @ 1.0% Cu (including 2 m @ 6.1% Cu)
- 13 m @ 1.4% Cu (including 4 m @ 2.8% Cu)
- 27 m @ 0.5% Cu (including 1 m @ 2.1% Cu)
- 19 m @ 0.9% Cu (including 2 m @ 3.4% Cu)

Antipa Minerals Ltd announced results from exploration activities at its Calibre prospect, part of the Citadel project within the Patterson Region. In total, 32 RC drill holes were completed at Calibre. The exploration program identified a new gold and copper zone in excess of 450 m in strike length, extending north from the edge of the Calibre magnetic anomaly. Gold and copper mineralisation at Calibre has now been intersected over a total strike length of 1 km and up to 480 m across strike and remains open in all directions.

- 85 m @ 1.27 g/t Au, 0.08% Cu, 0.25 g/t Ag and 0.03% W (including 25 m @ 2 g/t Au, 0.19% Cu, 0.70 g/t Ag and 0.03% W)
- 105 m @ 1.18 g/t Au, 0.07% Cu, 0.20 g/t Ag and 0.02% W (including 17 m @ 2.33 g/t Au, 0.21% Cu, 0.84 g/t Ag and 0.01% W)

Caravel Minerals Ltd provided results from five RC drill holes at its Bindi prospect within the Calingiri project. The current drilling program at Bindi has now been completed and all results will be incorporated in the maiden JORC Resource estimate. Results include:

- 208 m @ 0.28% Cu (including 34 m @ 0.32% Cu and 72 m @ 0.33% Cu)
- 170 m @ 0.32% Cu (including 52 m @ 0.56% Cu)

Sandfire Resources NL reported results from drilling being undertaken at the Monty copper-gold discovery located 10 km east of the DeGrussa copper-gold mine on the Springfield project within the Gascoyne Region, part of its farm-in with Talisman Mining Ltd. Thick high-grade copper intercepts were returned from a recent step-out hole with results of:

- 7.3 m @ 6.2% Cu and 2.8 g/t Au
- 21.6 m @ 34.4% Cu and 0.4 g/t Au
### Examples of Major Mineral Exploration Results 2015–2016

<table>
<thead>
<tr>
<th>Location</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gloster</td>
<td>0.93% U₃O₈ for 16.9 Mlb U₃O₈</td>
</tr>
<tr>
<td>Lake Maitland</td>
<td>@ 8.79 g/t Au</td>
</tr>
<tr>
<td>Horseshoe Lights</td>
<td>118 ppm Cu and 57 ppb PGE</td>
</tr>
<tr>
<td>Bindi</td>
<td>1.16 g/t Au for 136 000 oz Au</td>
</tr>
<tr>
<td>Oxley</td>
<td>4.45 m @ 518 ppm EU₃O₈</td>
</tr>
<tr>
<td>Monty</td>
<td>1.05 Mt @ 9.4% Cu and 1.6 g/t Au</td>
</tr>
<tr>
<td>Yarraloola</td>
<td>29.5 Mt @ 1.31% Lithium oxide</td>
</tr>
<tr>
<td>Dixon</td>
<td>26 m @ 1.0% Cu</td>
</tr>
<tr>
<td>Lake Wells</td>
<td>29 Mt SOP</td>
</tr>
<tr>
<td>Williamon</td>
<td>2 m @ 95.14 g/t Au</td>
</tr>
<tr>
<td>Fisher East</td>
<td>6.2 Mt @ 0.30% Ni, 118 ppm Cu and 57 ppb PGE</td>
</tr>
<tr>
<td>Lake Maitland</td>
<td>8.2 Mt @ 0.93% USO₆ for 16.9 Mlb U₃O₈</td>
</tr>
<tr>
<td>Yandal</td>
<td>46 m @ 1.01 g/t Au</td>
</tr>
<tr>
<td>Nariz</td>
<td>10 m @ 0.8% Ni, 0.4 g/t Pt and Pd</td>
</tr>
<tr>
<td>Gloster</td>
<td>7 Mt @ 1 g/t Au for 226 000 oz Au</td>
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<td>Oxley</td>
<td>155 Mt @ 8.3% potassium oxide</td>
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<td>Baneygo</td>
<td>3.6 Mt @ 1.16 g/t Au for 136 000 oz Au</td>
</tr>
<tr>
<td>Mertondale</td>
<td>5 m @ 7.99 g/t Au</td>
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<tr>
<td>Bindi</td>
<td>208 m @ 0.28% Cu</td>
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<tr>
<td>Ganymede</td>
<td>26.6 Mt @ 1.3 g/t Au for 108 000 oz Au</td>
</tr>
<tr>
<td>Heffernans</td>
<td>39.9 m @ 2.6 g/t Au</td>
</tr>
<tr>
<td>Jack</td>
<td>18.8 Mt @ 4.7% HMS</td>
</tr>
<tr>
<td>Tampia</td>
<td>8 m @ 10.02 g/t Au</td>
</tr>
<tr>
<td>Bonnie Vale</td>
<td>215 000 t @ 16.9 g/t Au for 117 000 ounces Au</td>
</tr>
<tr>
<td>Burbanks</td>
<td>550 001 t @ 5.6 g/t Au for 99 000 oz Au</td>
</tr>
<tr>
<td>Gunga West</td>
<td>1.3 Mt @ 1.7 g/t Au for 73 000 oz Au</td>
</tr>
<tr>
<td>Bonnie Vale</td>
<td>5.5 m @ 11.81 g/t Au</td>
</tr>
<tr>
<td>Mount Ridley</td>
<td>24 m @ 0.10% Ni and 463 ppm Cu</td>
</tr>
</tbody>
</table>

### Map of Australia

- **Mount Bonnie** (Phoenix Copper Ltd) 14 m @ 6.55% Zn, 0.87 g/t Au, 245 g/t Ag, 0.43% Cu, and 1.84% Pb
- **Cosmo** (Newmarket Gold Ltd) 4.3 m @ 7.42 g/t Au
- **Corkwood** (Bayera Mining Ltd) 16 m @ 5.03% TGC
- **McIntosh** (Lambro Resources Ltd) 47 m @ 5.0% TGC
- **Twin Bonanza** (Grit Resources Ltd) 19 m @ 5.82 g/t Au
- **Double Magic** (Barren Resources Ltd) 9.6 m @ 0.59% Ni, 0.21% Cu and 0.022% Co
- **Thunderbird** (Sheffield Resources Ltd) 683 Mt @ 11.3% HM
- **Succoth** (Cassiopeia Resources Ltd) 156 Mt @ 0.6% Cu for 943 000 t contained Cu
- **Calibre** (Antipa Minerals Ltd) 85 m @ 1.27 g/t Au, 0.08% Cu, 0.25 g/t Ag and 0.03% W

### Additional Details

- **Peterlumbo** (Investigator Resources Ltd) 11.1 g/t Ag, 0.46% Pb and 0.30% Zn
- **Barns** (Adelaide Resources Ltd) 23.5 m @ 0.24% Ni and 209 ppm Cu
- **Uraryle** (Wesfarmers Resources Ltd) 4 m @ 1.6% Cu
- **Oakdale** (Oakdale Resources Ltd) 6.2 Mt @ 0.93% USO₆ for 16.9 Mlb U₃O₈
- **Roe Hills** (Mining Projects Group Ltd) 30.8 Mt @ 6.5% Pb and 106 g/t Ag
- **Uley** (Ullawarra Resources Ltd) 2 m @ 28.6% Fe
- **Bald Hill** (Bald Hill Resources Ltd) 289 Mt @ 26.8% Fe
- **Arno** (Hillwood Resources Ltd) 37 m @ 1.67 g/t Au
- **Sivour** (Hillwood Resources Ltd) 7.4% TGC for 1.24 Mt of Cu
- **Penny's Find** (Empire Resources Ltd) 7.4% TGC for 1.24 Mt of Cu
- **Lanfranchi** (Panoramic Resources Ltd) 5.0% TGC for 1.24 Mt of Cu
- **Bird-in-Hand** (Teramin Australia Ltd) 5.0% TGC for 1.24 Mt of Cu
- **Stawell** (Stawell Gold Ltd) 5.0% TGC for 1.24 Mt of Cu
- **Morris Plains** (Morris Plains Resources Ltd) 5.0% TGC for 1.24 Mt of Cu
Examples of Major Mineral Exploration Results 2015–2016

- **Lake Maitland**: 0.93% U₃O₈ for 16.9 Mlb U₃O₈
- **Nariz**: 26 m @ 1.0% Cu, 1 g/t Au for 226,000 oz Au
- **Dixon**: 118 ppm Cu and 57 ppb PGE
- **Heffernans**: 1.3 g/t Au for 108,000 oz Au
- **Ganymede**: 34.4% Cu and 0.4 g/t Au
- **Baneygo**: 1.7 g/t Au for 73,000 oz Au and 463 ppm Cu
- **Yandal**: 4.45 m @ 518 ppm eU₃O₈
- **Lake Wells**: 156 m @ 28.3% Fe
- **Williamson**: 16.9 g/t Au for 117,000 ounces Au
- **34.4% Cu and 0.4 g/t Au**
- **Monty**: 1.3 g/t Au, 133 g/t Ag, 1.3% Pb and 0.3% Cu

**Commodity type**
- **Base metals - Cu (Zn, Pb, Ag, Au)**
- **Base metals - Zn, Pb (Cu, Ag)**
- **Base metals - Cu, Au, Uranium**
- **Coal**
- **Diamond**
- **Gold, copper, silver, iron ore**
- **Heavy mineral sands**
- **Iron ore**
- **Light metals - Al, Li, Mg**
- **Other metals - Sn, Sb, W, Ta**
- **Phosphate**
- **Platinum–group elements**
- **Precious metals - Au, Ag**
- **Rare earth elements**
- **Steel making metals - Ni, Cr, V, Co, Mo, Mn**
- **Uranium**

**Mine status**
- Operating mine
- Developing mine
- Mineral deposit
- Drill intersection/resource estimate
- Maiden resource

**Figure 6** 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). Significant exploration results are indicated (maiden resources are shown in blue text).
Gold

New South Wales

KBL Mining Ltd reported on a four-hole diamond drilling program at the Pearse deposit that encountered high-grade Au–Ag mineralisation. The drilling was designed to obtain metallurgical samples for optimising the flow of sulphide ore through the process plant. Significant intercepts include:

- 18.5 m @ 13 g/t Au and 182 g/t Ag
- 32.1 m @ 6.4 g/t Au and 131 g/t Ag
- 6.5 m @ 16.2 g/t Au and 11 g/t Ag
- 37 m @ 13 g/t Au and 99 g/t Ag

Northern Territory

Newmarket Gold Inc reported on its drilling program of 10 holes for 4201.8 m at Cosmo gold mine that tested the Western Lodes Target, which is outside the current mine plan. The results from this drilling program highlight the potential of identifying mineralisation at grades and widths amenable for underground mining and in close proximity to existing mine infrastructure. High-grade drill results for the Cosmo Western Lodes Target include:

- 4.3 m @ 7.42 g/t Au
- 6.4 m @ 6.59 g/t Au

Emmerson Resources Ltd and Evolution Mining Ltd reported assay results from the recent drill program at Edna Beryl West, within Emmerson’s 100%-owned project at Tennant Creek. The drill program has identified multiple sub-parallel ore shoots that are structurally controlled both up and down plunge and also along strike. The ore shoots identified to date connect the high-grade gold mineralisation at Edna Beryl with the recent and historic drill holes at Edna Beryl West. Drill results include:

- 5 m @ 27 g/t Au (including 2 m @ 51 g/t Au)
- 13 m @ 8.7 g/t Au (including 7 m @ 15 g/t Au)

ABM Resources NL reported on assays received from a near-mine 15 000 m extensional exploration drill program at the Twin Bonanza project in the Tanami. The program targeted near-surface, higher-grade zones surrounding the Old Pirate mine for potential incremental expansion and additional tonnes to complement mining at Old Pirate. First assay results received include:

- 19 m @ 5.82 g/t Au
- 2 m @ 33.36 g/t Au

Queensland

MGT Resources Ltd reported assay results from an RC drilling program at the Pyramid Gold project. The purpose of the drilling program was to explore extensions to mineralisation at the Gettysburg prospect and test new structural models at the Gettysburg, Sellheim, Marrakesh and Pradesh prospects. A total of 24 holes for 3566 m have been drilled in the program. Drill results include:

- 35 m @ 6.1 g/t Au (including 5 m @ 37.1 g/t Au)

Sellheim Prospect

- 123 m @ 0.26 g/t Au (including 18 m @ 0.52 g/t Au)
- 52 m @ 0.27 g/t Au (including 8 m @ 0.53 g/t Au)

South Australia

Adelaide Resources Ltd reported on its drilling program of seven diamond holes for 1287 m at the Barns and Baggy Green prospects in the Central Gawler Gold Province. Six of the holes targeted previously undrilled regions within modelled mineralisation; the other hole was drilled in an area of historical drilling to check the range of gold mineralisation. All seven of the holes intersected mineralisation. Drill results include:

Barns Prospect

- 23.5 m @ 2.16 g/t Au (including 16.1 m @ 3.06 g/t Au)
- 3 m @ 3.48 g/t Au

Baggy Green Prospect

- 24 m @ 2.33 g/t Au
- 36 m @ 0.76 g/t Au

Tyranna Resources Ltd announced assay results from an RC drilling program at the Jumbuck project in the northwestern Gawler Craton near the Challenger Mine. Selected significant gold intercepts include:

- 54 m @ 1.14 g/t Au (including 8 m @ 4.57 g/t Au)
- 11 m @ 2.60 g/t Au (including 4 m @ 5.64 g/t Au)
- 9 m @ 1.75 g/t Au (including 3 m @ 4.24 g/t Au)

Terramin Australia Ltd reported on a diamond drill program at the Bird-in-Hand project in the Adelaide Hills. The program was designed to provide hydrological, geotechnical and metallurgical data about the deposit. Significant gold intersections were reported in several holes including high-grade intercepts of:

- 5.8 m @ 37.43 g/t Au
- 8.0 m @ 26.90 g/t Au

Tasmania

Unity Mining Ltd announced that encouraging results from exploration drilling had identified a number of new targets at the Henty gold mine, including up-dip in the Read Zone and down-dip from the previously mined high-grade Darwin South area. One hole targeted an area approximately 80 m below the previously mined area and current interpretation confirms the continuation of mineralisation well below the previously known South Darwin resource position. Drill results include:

- 1 m @ 70.8 g/t Au
- 2 m @ 41.8 g/t Au
Victoria

Catalyst Metals Ltd has identified a new zone of gold mineralisation in its first reconnaissance air core (AC) drilling program at the northern end of the Tandarra project north of Bendigo. This program follows a review of past exploration activity and was designed to gain initial information on basement depth and geochemistry in areas that had received very little previous exploration. Thirty-one holes were completed on three drill traverses for a total of 3853 m. Two zones of mineralisation were identified around 500 m apart. The gold zones in these two holes are associated with a quartz-bearing, clay-rich zone with elevated iron concentrations. Results include:

- 2.0 m @ 33.1 g/t Au (including 1.0 m @ 65.6 g/t Au)
- 5.0 m @ 0.53 g/t Au

Newmarket Gold Inc announced exploration results from 81 drill holes for 17 002.5 m completed during an exploration and resource definition drilling program on the Phoenix and Lower Phoenix systems at Fosterville mine. The latest results confirm the presence of high-grade drill core and continuity of gold mineralisation in the Lower Phoenix system. Drill results include:

- 9.15 m @ 386 g/t Au (including 0.6 m @ 5283 g/t Au)
- 7.85 m @ 268 g/t Au (including 0.35 m @ 5276 g/t Au)

Newmarket Gold also announced the results of the Aurora B drilling program at the Stawell gold mines. This is the first drill program at the Aurora B target, with drilling focused on the East Flank of the Magdala Basalt approximately 400-500 m below surface. This phase of exploration drilling comprised two holes for 1175 m. Drilling results include:

- 17.80 m @ 7.06 g/t Au

Western Australia

Australian Mines Ltd announced assays from its maiden drill hole at the Dixon prospect situated within the Doolgunna-Marymia project within the Plutonic region. This RC drill hole tested if high-grade primary gold mineralisation is present within the bedrock geology at depth and whether this mineralisation may be associated with the regional north-northeast-trending shear zone. The drill hole successfully intersected sulphide-quartz veining within a greenstone unit at the targeted depth. Drill results include:

- 10 m @ 8.79 g/t Au (including 1 m @ 29.11 g/t Au)
- 1 m @ 14.85 g/t Au
- 1 m @ 29.22 g/t Au

Blackham Resources Ltd announced the results from maiden drilling at the Williamson deposit, part of the Matilda gold project near Wiluna. The recently completed program of 19 RC holes discovered a new, shallow, high-grade zone of oxide mineralisation. The newly discovered lode extends into the planned pit area which is likely to improve the pit’s economics. The program has also successfully infilled the southern extensions of the resource to a spacing that is likely to support an Indicated Resource classification. Drill results from this program include:

- 2 m @ 95.14 g/t Au
- 1.45 m @ 5.73 g/t Au

Dacian Gold Ltd announced the assay results from 13 diamond drill holes recently completed at its Heffernans gold deposit. The Heffernans deposit forms part of the Jupiter prospect which is located within the company’s 100%-owned Mount Morgans project. Drilling identified several new mineralised surfaces at depth and confirmed that mineralisation extends from surface to below 600 m depth, and remains open. Drill results include:

- 39.9 m @ 2.6 g/t Au
- 12.1 m @ 3.6 g/t Au
- 30.5 m @ 1.5 g/t Au
- 17.0 m @ 1.6 g/t Au

Metaliko Resources Ltd reported that 1 m samples from recent RC drilling at the Yandal project have returned broad intercepts of mineralisation from the Anomaly 45 and Fat Lady prospects. Both prospects are located within 12-17 km of the Bronzewing treatment plant. The drilling comprised 13 holes for 1151 m at the Anomaly 45 prospect and five holes for 442 m at the Fat Lady prospect. Drill results include:

- Anomaly 45
  - 7 m @ 1.68 g/t Au (including 2 m @ 4.65 g/t Au)
  - 46 m @ 1.01 g/t Au (including 14 m @ 1.70 g/t Au)

- Fat Lady
  - 8 m @ 1.58 g/t Au (including 5 m @ 2.01 g/t Au)

Focus Minerals Ltd reported exploration assay results from drilling at Bonnie Vale and Brilliant North in Coolgardie. Twenty-one holes were drilled at Bonnie Vale for 4463.1 m of RC and 878.4 m of diamond core. This program was designed to explore the extensions of the high-grade mineralised reefs defined from previous drilling campaigns. Results from the Brilliant North program confirm that the high-grade gold mineralisation extends to the north of the existing pit and at depth. Drill results include:

- Bonnie Vale
  - 5.5 m @ 11.81 g/t Au

- Brilliant North
  - 1.2 m @ 7.3 g/t Au

Empire Resources Ltd reported on a five-hole RC drilling program at the Penny’s Find deposit, 50 km northeast of Kalgoorlie. The drilling program of 422 m was undertaken to obtain samples of both oxide and fresh gold mineralisation...
for metallurgical test work and to assess hydrology (groundwater). Drill results include:

- 7 m @ 4.65 g/t Au
- 2 m @ 9.24 g/t Au
- 3 m @ 8.30 g/t Au
- 4 m @ 2.85 g/t Au

Kin Mining NL reported on a maiden drilling campaign at Mertondale near Leonora. The drill program consisted of four deep RC holes for 840 m that intersected three target areas T1, T2 and T3. Deeper drilling indicates a broad zone of gold mineralisation persists at depths below historic underground workings. The recent drilling defined an extension to the Merton’s Reward ore zone with a high-grade intersection of:

- 5 m @ 7.99 g/t Au (including 1 m @ 24.70 g/t Au)

Millennium Minerals Ltd announced drilling results from near-mine targets at its Nullagine mine in the Pilbara region. The latest results are from the All Nations and Bartons deposits and highlight the potential for increasing the gold inventory in existing resource models and pit designs for these deposits. Drill results include:

<table>
<thead>
<tr>
<th>Deposit</th>
<th>Location</th>
<th>Drill Results</th>
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<tbody>
<tr>
<td>All Nations</td>
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<td></td>
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<td>22 m @ 1.61 g/t Au (including 1 m @ 5.90 g/t Au)</td>
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<td>19 m @ 1.35 g/t Au</td>
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<td>22 m @ 1.47 g/t Au</td>
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<td>Bartons</td>
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<td>24 m @ 1.25 g/t Au</td>
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<td>6 m @ 3.91 g/t Au</td>
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<td>7 m @ 2.44 g/t Au (including 1 m @ 7.07 g/t Au)</td>
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Explaurum Ltd announced the results from its RC drilling program over the northern part of the Gault Deposit area at the Tampa Gold Project, located 300 km east of Perth. The program comprised 45 RC holes drilled for 2798 m. Results reported were from holes drilled in the central and southern parts of the Toll Pit target area, testing the continuity and grade of shallow mineralisation intersected by historic drilling. All but one of the holes is mineralised, including significant intercepts of:

- 8 m @ 10.02 g/t Au (including 2 m @ 30.50 g/t Au) |
- 15 m @ 6.13 g/t Au (including 3 m @ 12.28 g/t Au) |
- 2 m @ 26.72 g/t Au |
- 14 m @ 8.75 g/t Au (including 8 m @ 13.29 g/t Au)

**Figure 7** Selected gold exploration projects, 2015–16.
Graphite

South Australia

Renascor Resources Ltd reported on an eight-hole drilling project at the Arno graphite project on the Eyre Peninsula. All holes showed strong correlation with extensive, well-defined conductivity zones over a 5 km strike-length. EM over the advanced Siviour prospect outlined a flat-lying, shallow conductive zone extending over 1200 m west of the existing high-grade drill section. Drill results include:

- 37 m @ 7.24% TGC (including 19 m @ 11.14% TGC)
- 36 m @ 8.48% TGC (including 20 m @ 10.78% TGC)

Valence Industries Ltd announced results from the targeted extensional drilling campaign at its Uley operation near Port Lincoln. The drilling program focused on the Uley Pit 2 area and was designed to confirm the dip and strike continuity of mineralised lodes and provide data to allow a detailed mining schedule to be developed for Uley Pit 2. Drill results include:

- 2 m @ 28.8% TGC
- 5.4 m @ 13% TGC

Queensland

Graphitecorp Ltd reported on a drilling program at the Mount Dromedary project near Cloncurry. The drilling program comprised a total of 9 diamond and 17 RC drill holes testing a 500 m strike length of the Central Graphite Zone. The drilling intersected three graphite horizons containing high-grade graphite mineralisation over the 500 m strike length. The mineralisation remains open at depth and along strike to the north and south. Drill results include:

- 31 m @ 16.17% TGC
- 40 m @ 17.15% TGC

Western Australia

Lamboo Resources Ltd announced diamond-core assay results from Target 6 at the McIntosh Flake graphite project in the East Kimberley. Assay results for drilling highlight broad intersections of flake graphite mineralisation covering a strike length of over 240 m. The mineralised structure at Target 6 remains open in both directions along strike as well as at depth. Drill results include:

- 47 m @ 5.0% TGC (including 13 m @ 6.3% TGC and 10 m @ 6.3% TGC)
- 16 m @ 5.3% TGC (including 5 m @ 6.9% TGC and 4 m @ 6.0% TGC)
- 29 m @ 4.3% TGC (including 13 m @ 5.7% TGC)

Sayona Mining Ltd announced assay results from its maiden Corkwood prospect drilling program at the East Kimberley project, Western Australia. The program comprised 33 RC drill holes totalling 2949 m located at 6 prospect areas along a 7 km strike extent. Every hole intersected graphite mineralisation. Mineralisation is open at depth and along strike. Drill results include:

- 16 m @ 5.03% TGC
- 22 m @ 3.8% TGC
- 36 m @ 3.39% TGC
- 54 m @ 3.05% TGC
- 109 m @ 1.84% TGC

Iron Ore

Western Australia

Coziron Resources Ltd reported on a RC drilling program at the Yarraloola magnetite project in the West Pilbara. The drilling comprised 16 inclined drill holes to a depth of 198 m. All RC holes contain intervals with high magnetic susceptibility and elevated Fe) content. Drill intercepts include:

- 156 m @ 28.3% Fe
- 53 m @ 24.6% Fe
- 63 m @ 26.3% Fe
- 80 m @ 31.1% Fe

BC Iron Ltd reported on hematite exploration results for Mulla Mulla 2 and Mulla Mulla 3 at the Nullagine Joint Venture with Fortescue Metals Group Ltd. At Mulla Mulla 2, 122 holes were drilled for a total of 2731 m and at Mulla Mulla 3, 118 holes were drilled for a total of 3460 m. Assay results confirm the presence of significant iron mineralisation with good continuity. Drill results include:

- Mulla Mulla 2
  - 16.5 m @ 57.5% Fe
  - 16 m @ 58.0% Fe
- Mulla Mulla 3
  - 22 m @ 58.0% Fe
  - 9.5 m @ 57.0% Fe
Nickel

Western Australia

Duketon Mining Ltd reported on a drilling campaign at the Nariz prospect, part of the Duketon project. The program consisted of eight holes using a combination of RC and diamond-core drilling and was designed to test geological and geophysical targets. Six of the eight holes intersected nickel-copper sulphides with associated elevated Pt and Pd. Intersections of note in this drilling campaign include:

- 10.0 m @ 0.8% Ni, 0.4% Cu and 0.8 g/t Pt and Pd
- 9.2 m @ 0.7% Ni, 0.1% Cu and 0.8 g/t Pt and Pd

Mount Ridley Mines Ltd reported on assay results from AC drilling at the Mount Ridley project in the Albany-Fraser Range Province. The nickel and copper supergene zone has now doubled to over 1600 m in length. Results from assays and extensive petrographic work have identified at least two peridotite layers within the intrusion that are coincident with higher nickel and copper values. Better nickel and copper intersections include:

- 24 m @ 0.10% Ni and 463 ppm Cu (including 1 m @ 0.12% Ni and 3850 ppm Cu)
- 7 m @ 0.11% Ni and 812 ppm Cu

Panoramic Resources Ltd reported on two drill holes at the Lower Schmitz exploration target part of the Lanfranchi project within Kambalda region. Drill results include:

- 8.20 m @ 6.69% Ni
- 1.25 m @ 1.74% Ni

Buxton Resources Ltd advised on assay results received from two diamond-core holes sampled as part of the Phase 2 drill program at the Double Magic project in the West Kimberley. Three separate targets returned drill hole intercepts >3% Ni, with results of up to 8.14% Ni in diamond drill core. Drilling has confirmed that geophysical targets (conductors) tested to date are related to nickel-copper sulphide mineralisation. Drill results include:

- 9.6 m @ 0.59% Ni, 0.21% Cu and 0.022% Co (including 0.2 m @ 6.35% Ni, 0.14% Cu and 0.196% Co)

Mining Projects Group Ltd advised results of an initial phase of RC and diamond drilling at the Roe Hills project, Eastern Goldfields. Ten drill holes have been completed for a total combined depth of 3383.2 m. The initial phase of the program was designed to provide a first-pass assessment of several underexplored prospects across the 40-km strike at the Hooton, Point Perchance and Roe 2 prospects. Much of this sequence is beneath transported cover and is essentially unexplored. The targets tested included a combination of mineralisation identified in historical wide-spaced shallow rotary air blast and AC drilling, discrete magnetic features identified in detailed aeromagnetic data and several conductors identified from the ongoing surface geophysical surveys. Drill results from the Hooton prospect include:

- 2.7 m @ 0.38% Ni and 303 ppm Cu
- 30.0 m @ 0.24% Ni and 209 ppm Cu
- 8.0 m @ 0.24% Ni and 178 ppm Cu
- 6.5 m @ 0.25% Ni and 342 ppm Cu
Rox Resources Ltd reported on results and the intersection of nickel sulphides from an AC drilling program recently completed at Fisher East project within the Mount Fisher Greenstone Belt. The drilling program of 59 holes for 3586 m was designed to test a number of EM conductors identified from airborne versatile time-domain electromagnetic surveys. Drilling of three EM conductors has returned anomalous values for nickel, copper and platinum group elements (PGE). Drill results include:

- 6 m @ 0.30% Ni, 118 ppm Cu and 57 ppb PGE (Pd+Pt+Au)
- 8 m @ 0.26% Ni, 81 ppm Cu and 34 ppb PGE
- 8 m @ 0.53% Ni, 54 ppm Cu and 25 ppb PGE
- 8 m @ 0.26% Ni, 57 ppm Cu

Windward Resources Ltd advised on a completed RC drilling program at the Urarlyie prospects, part of its Fraser Range North project. A total of 12 drill holes were completed for 1722 m with depths ranging from 90 m to 192 m. Drilling was completed at three separate prospects namely Urarlyie, Urarlyie South and Urarlyie Southeast. Anomalous nickel values were returned in several holes, including:

- 4 m @ 5450 ppm Ni
- 4 m @ 6360 ppm Ni
- 4 m @ 3050 ppm Ni

Platinum Group Elements

New South Wales

Impact Minerals Ltd announced results from a drilling program to test a strong EM conductor, which has commenced at the Platinum Springs prospect about 20 km north east of Broken Hill. The conductor is at least 100 m long and is also, in part, coincident with a massive sulphide unit containing high-grade nickel-copper-platinum group elements. Drill results include:

- 6.3 m @ 1.6 g/t Pt, 2.5 g/t Pd, 0.3 g/t Au, 0.9% Cu, 0.5% Ni and 13.8 g/t Ag (including 0.5 m @ 10 g/t Pt, 11.1 g/t Pd, 0.6 g/t Au, 1% Cu, 0.5% Ni and 41.5 g/t Ag)

Tin

New South Wales

Thomson Resources Ltd announced drilling results from its Byggo tin project near the Ardlethan tin mine. Ten RC holes for 1060 m were drilled to confirm historic drill intersections and extend the mineralisation along strike and at depth. Nine of the ten holes intersected significant tin mineralisation. Drilling has extended the mineralised zone with mineralisation open to the south, east and down dip and a new mineralised zone was discovered in the footwall of the main zone. Encouraging intercepts include:

- 13 m @ 1.0% Sn
- 18 m @ 0.8% Sn
- 5 m @ 1.3% Sn

Tasmania

Aus Tin Mining Ltd undertook a due diligence drilling program at its Granville tin project. The drilling comprised a limited program of 100 m of diamond drilling to assess the grade of mineralisation below the floor of the open pit. Drill results include:

- 7 m @ 2.65% Sn
- 7 m @ 2.22% Sn

Rare Earth Elements

Western Australia

Hasting Rare Metals Ltd reported on results of a prefeasibility study, RC drilling program at Bald Hill South. This program has identified extensions to the north of the current resources. Shallow flat-lying mineralisation was intersected over an area of approximately 325 m by 300 m. Drill intersections include:

- 14 m @ 3.11% TREO
- 4 m @ 2.11% TREO

Uranium

Northern Territory

Alligator Energy Ltd reported on final assay results from the shallow AC drilling program. This program comprised 87 holes for 2257 m and was undertaken in three target areas – BT-4, Beatrice prospect and BT-1. Moderate uranium anomalism (more than 50 times background) was identified over a 2 km strike length at BT-1 prospect. Beatrice Prospect returned moderately anomalous to medium-grade (up to 796 ppm U3O8) uranium mineralisation in the regolith zone extending 100 m south of outcropping mineralisation. Results included:

- 1 m @ 222 ppm U3O8
- 7 m @ 311 ppm U3O8
- 2 m @ 598 ppm U3O8
- 2 m @ 358 ppm U3O8

South Australia

Boss Resources Ltd reported an updated JORC-compliant resource for the Honeymoon project in the Curnamona region with an increase of 66% over previously reported figures. The company used advanced 3D geostatistical modelling to better understand the geology, continuity and volume of mineralisation leading to an improved resource endowment and classification. The new global resource figure is:

- 15.2Mt @ 820 ppm e U3O8 for 27.6 million pounds (Mlb) U3O8
- Maiden Measured Resource: 1.7 Mt @ 1720 ppm e U3O8 for 6.5 Mlb of U3O8
- Indicated Resources: 1.5 Mt @ 1270 ppm e U3O8 for 4.2 Mlb U3O8
- Inferred Resources: 12 Mt @ 640 ppm e U3O8 for 16.8 Mlb U3O8
Western Australia

Toro Energy Ltd reported an updated resource estimate for the Lake Maitland part of the Wiluna project. The increase at Lake Maitland follows the completion of geochemical analysis of drilling which included 49 drill holes for 536 m. Fifteen per cent of the holes intersected mineralisation above 2000 ppm U₃O₈ in shallow-lying zones at a depth less than 5 metres from surface. The new Inferred Resource for Lake Maitland is:

- 8.2 Mt @ 0.93% U₃O₈ for 16.9 Mlb U₃O₈

Cauldron Energy Ltd reported on a drilling program to test the recently identified Bennet Well Channel 85 km south of Onslow. The Bennet Well Channel is a linear zone of mineralisation situated adjacent to the area used to define the Bennet Well Mineral Resource. Drilling completed in the channel amounted to 25 mud rotary holes for 2411 m. The drilling to date has identified that mineralisation extends southeast from the Bennet Well deposit towards the tenement boundary for at least 7 km. The lateral continuity of the mineralised paleovalley is at least 11 km. Drilling highlights include:

- 4.45 m @ 518 ppm e U₃O₈
- 0.65 m @ 312 ppm e U₃O₈
- 1.35 m @ 516 ppm e U₃O₈
- 0.80 m @ 353 ppm e U₃O₈
- 2.30 m @ 461 ppm e U₃O₈

The following acronyms and abbreviations are used in this report:

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<thead>
<tr>
<th>V</th>
<th>joint venture</th>
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<td>Inc</td>
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<td>SA</td>
<td>South Australia</td>
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<tr>
<td>WA</td>
<td>Western Australia</td>
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</tbody>
</table>

| HM | heavy minerals |
| PGE | platinum group elements |
| SOP | sulphate of potash |
| TGC | total graphitic carbon |
| TREO | total rare earth oxides |
| U₃O₈ | uranium oxide (triuranium octoxide) |
| e U₃O₈ | equivalent uranium grade measured using downhole gamma-ray probe |
| Ag | silver |
| Au | gold |
| Co | cobalt |
| Cu | copper |
| Fe | iron |
| Mo | molybdenum |
| Ni | nickel |
| Pb | lead |
| Zn | zinc |
| Pt | platinum |
| Sn | tin |
| AC | air core (drilling) |
| EM | electromagnetic |
| RAB | rotary air blast (drilling) |
| RC | reverse circulation (drilling) |
| VTEM | versatile time-domain electromagnetic (survey) |

Contact Details

mineral.promotions@ga.gov.au

Department of Industry, Innovation and Science

Minister for Resources and Northern Australia: The Hon Matt Canavan MP

Secretary: Ms Glenys Beauchamp PSM

Geoscience Australia

Chief Executive Officer: Dr Chris Pigram

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