



#### **ASX ANNOUNCEMENT**

15 September 2020

### Falcon – Drilling update

### Drill results confirm Falcon as a growing new opportunity

#### **Highlights:**

- Recent aircore drilling extends the Falcon intrusion a further 640m to the south for an overall strike of 2.4km. Remains open to the south.
- New RC and diamond drill results, over the northern most 320m strike continues to confirm broad gold mineralisation down to 250m depth. Remains open at depth.
  - 92m @ 1.3g/t Au\* from 167m in HERC233D (section 7691720N)
    - \*This intercept includes the previously reported precollar intercept of 24m @ 0.8g/t.
  - 66m @ 1.1g/t Au from 114m in HERC253 (section 7691960N)
  - 51m @ 1.5g/t Au\* from 205m in HERC254D (section 7691960N)
    - \*Ends in mineralisation with diamond tail in progress
- Aircore drilling will progressively move to the south to test for strike extensions. RC and diamond drilling to test for extensions at depth.

De Grey Technical Director, Andy Beckwith, commented:

"Falcon is rapidly becoming a large intrusive gold system at least 2.4km in strike that remains open in all directions.

Extensional RC drilling is defining strong broad gold mineralisation with many holes ending in mineralisation. The first diamond core tail has extended mineralisation down to 250m depth with a true width of approximately 70m. The gold mineralisation is consistent throughout the strongly brecciated and altered intrusion.

Falcon is an exceptional drilling target and drilling is advancing as a priority. The scale of Falcon demonstrates its potential to significantly add to the overall gold endowment at Hemi.

The mineralised footprint at Hemi also remains open to the west of Aquila, to the north-east and west of Brolga, at Brolga south and to the north-west of Crow."



De Grey Mining Limited (ASX: DEG, "De Grey", "Company") is pleased to provide the following drilling update at the Hemi Gold Discovery, located approximately 60km south of Port Hedland in Western Australia.

The new Falcon intrusion is located west of Brolga and south of Aquila. Recent aircore drilling has extended the intrusion to 2.4km in strike and it remains open to the south. The intrusion is up to 80m wide and remains open at depth. The bedrock mineralisation is covered by approximately 30m to 40m of transported material, similar to the Aquila, Brolga and Crow deposits.

The mineralisation is intimately associated with highly brecciated and extensively sulphide altered portions of the north south orientated subvertical intrusion. Follow-up RC and diamond drilling has now defined strong gold mineralisation over 320m strike and to +250 metres depth and remains open along strike and at depth. The intense alteration and style of mineralisation observed to date shows strong similarities to the nearby Aquila zone.

The follow-up drilling RC and diamond drilling has returned further encouraging broad gold intercepts that support the previously announced results. Significant new gold results in drilling are provided in Table 1 and Figures 1-4.

#### **RC** and Diamond Drilling

Recent follow-up RC and diamond drilling results continue to support a large new gold system at Falcon. The results show continuation of wide gold zones both down dip to +250m depth and along strike for 320m and remains open.

RC drilling is currently underway testing along strike to the south on a nominal 80m x80m step out basis. Diamond drilling of deeper extension will progress as results warrant. Over 2km of strike remains to be RC and diamond drill tested.

Significant new results (>10gm\*m) from RC drilling to date include:

- 92m @ 1.3g/t Au\* from 167m in HERC233D (section 7691720N)
   \*This intercept includes the previously reported precollar intercept of 24m @ 0.8g/t.
- 66m @ 1.1g/t Au from 114m in HERC253 (section 7691960N)
- **51m @ 1.5g/t Au** from 205m in HERC254D (section 7691960N) ends in mineralisation with diamond tail in progress

Previously reported significant RC drilling results include:

- **58m @ 2.1g/t Au** from 64m in HERC232 (section 7691640N)
- 11m @ 1.2g/t Au from 199m in HERC231 (section 7691640N)
- 31m @ 1.3g/t Au from 88m in HERC234 (section 7691800N)
- **16m @ 3.7g/t Au** from 43m in HERC141 ends in mineralisation (section 7691800N)



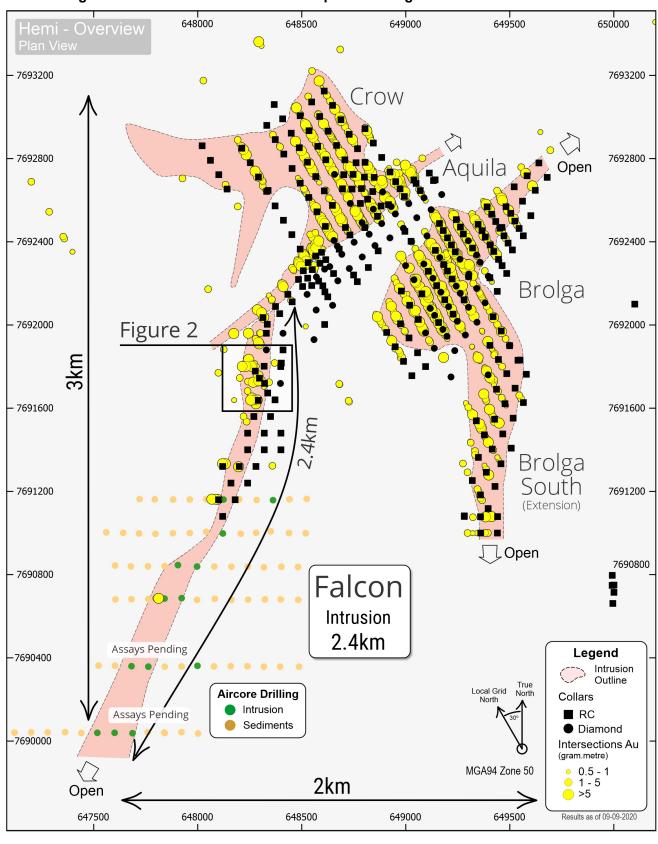


Figure 1: Falcon – Drill hole location plan showing the northern 400m of Falcon



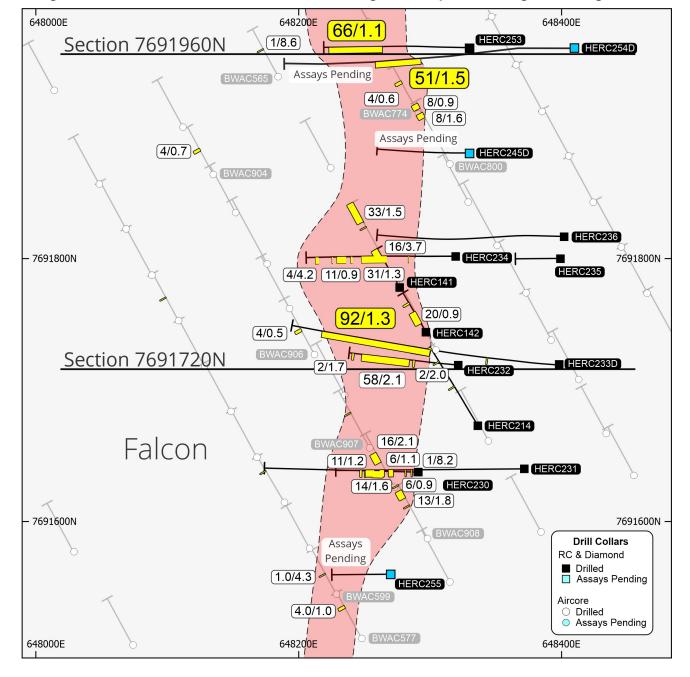


Figure 2: Falcon - Zoom into the northern drilling location plan showing RC drilling results.

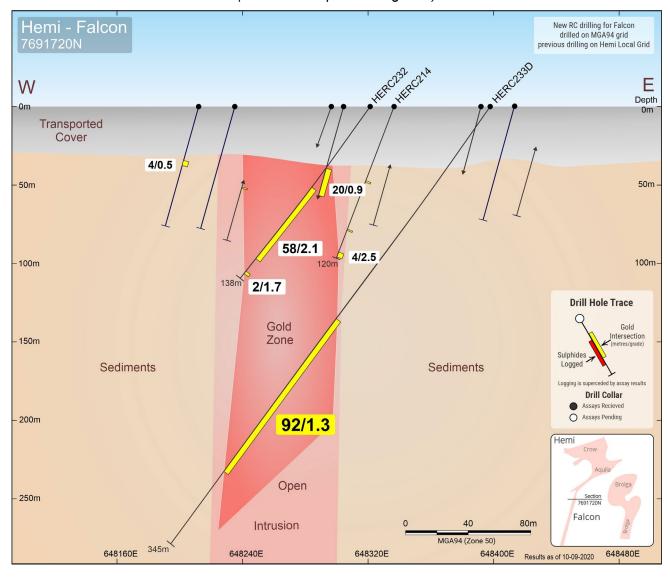
#### **Aircore Drilling**

Aircore drilling continues to delineate extensions of the Falcon intrusion to the south. The southernmost section 7690000N intersecting weathered intrusion in three consecutive holes, each 80m apart. Assay results are pending.



Figure 3: Falcon - Section 7691720N RC drill results

(Refer to core photo in Figure 5)





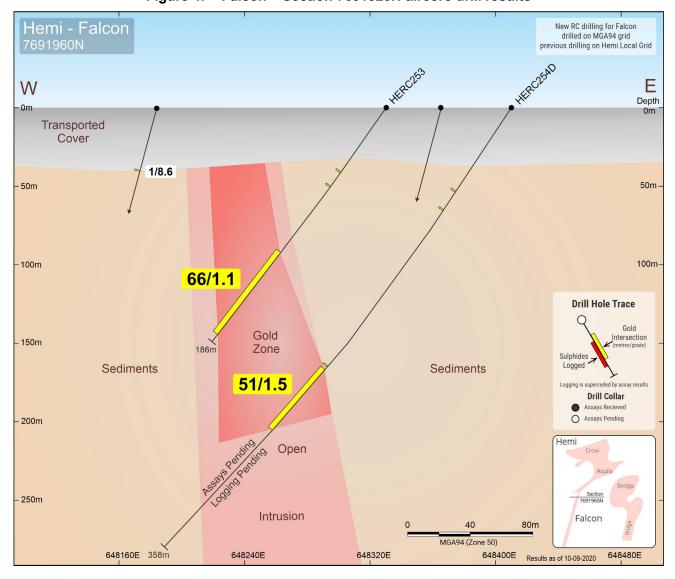
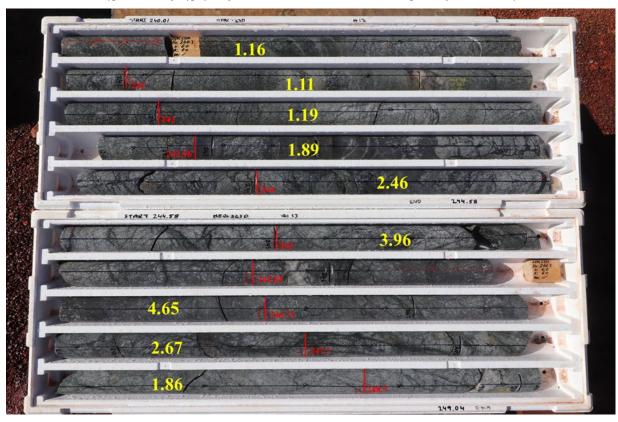


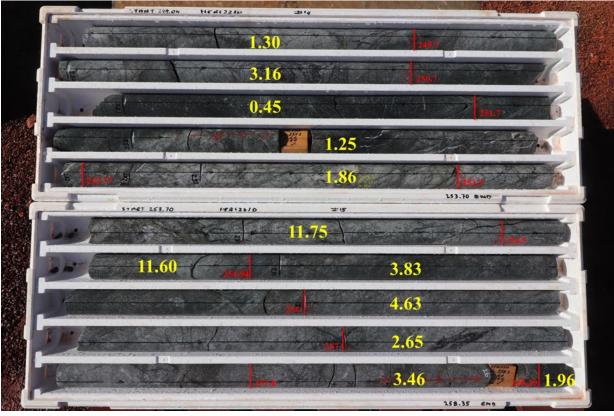
Figure 4: Falcon - Section 7691320N aircore drill results



Figure 5 Falcon HERC233D – Strong sulphide rich alteration and brecciation from 240m - 258.3m with total intercept of 91m @1.3g.t

(gold assays(g/t) in yellow with red lines indicating sample interval)







# This announcement has been authorised for release by the De Grey Board. For further information, please contact:

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#### **Competent Person's Statement**

The information in this report that relates to exploration results is based on, and fairly represents information and supporting documentation prepared by Mr. Phil Tornatora, a Competent Person who is a member of The Australasian Institute of Mining and Metallurgy. Mr. Tornatora is an employee of De Grey Mining Limited. Mr. Tornatora has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resource and Ore Reserves". Mr. Tornatora consents to the inclusion in this report of the matters based on his information in the form and context in which it appears.

#### Previously released ASX Material References that relates to Hemi Prospect during 2020 includes;

#### Resources:

2020 Mallina Gold Project Resource update, 2 April 2020.

#### Exploration:

- Hemi confirms potential for major discovery, 6 February 2020;
- Further impressive thick and high grade gold at Hemi, 11 February 2020;
- Major extension of sulphide mineralisation at Hemi, 26 February 2020;
- RC drilling confirms large scale gold system at Hemi, 5 March 2020;
- Continuing extensive sulphide mineralisation intersected at Hemi, 10 March 2020;
- Hemi continues to grow, 17 March 2020;
- Major Gold Extensions defined at BROLGA, 25 March 2020.
- Brolga Continues to grow, 9 April 2020
- Aircore Drilling defines third large gold zone at Hemi, 17 April 2020
- Brolga and Aquila drilling update, 22 April 2020
- Large gold system defined at Crow, 1 May 2020
- Exploration update, 20 May 2020
- Significant extension at Hemi- Aquila, 27 May 2020
- HEMI Major extension, 5 June 2020
- HEMI Broad, high grade extensions at Aquila, 9 June 2020
- Further high grade and expanded footprint at Hemi, 22 June 2020
- High gold recoveries achieved at Hemi, 9 July 2020
- Further extensions confirmed at Brolga, 10 July 2020
- Hemi scale grows with Aquila new extensions, 22 July 2020
- Strong results boost Aquila westerly extension, 5 August 2020
- Aquila mineralisation extends to 400 vertical metres. New lode identified at Crow
- Brolga mineralisation extends north towards Aquila, northeast towards Scooby, 21 August
- Exceptional high grade gold intercept at Crow, 27 August 2020
- Falcon -Major new gold discovery at Hemi, 2 September 2020



Table 1: Significant new results (>2 gram x m Au)

HoleID	Zone	Depth From (m)	Depth To (m)	Down hole Width (m)	Au (g/t)	Collar East (GDA94)	Collar North (GDA94)	Collar RL (GDA94)	Dip (°)	Azimuth (GDA94)	Hole Depth (m)	Hole Type
BXAC504	Falcon	76.0	80.0	4.0	0.6	648398	7691322	70	-60	272	89	AC
HERC233D	Falcon	167.0	259.0	92.0	1.3	648398	7691719	69	-55	275	345	DD
incl	Falcon	245.0	246.7	1.7	4.3	648398	7691719	69	-55	275	345	DD
incl	Falcon	253.5	258.3	4.8	6.1	648398	7691719	69	-55	275	345	DD
HERC233D	Falcon	270.2	277.0	6.8	0.6	648398	7691719	69	-55	275	345	DD
HERC233D	Falcon	281.8	288.0	6.2	1.3	648398	7691719	69	-55	275	345	DD
HERC253	Falcon	114.0	180.0	66.0	1.1	648330	7691960	69	-56	271	186	RC
incl	Falcon	115.0	117.0	2.0	4.8	648330	7691960	69	-56	271	186	RC
incl	Falcon	155.0	157.0	2.0	4.4	648330	7691960	69	-56	271	186	RC
HERC254D	Falcon	205.0	256.0	51.0	1.5	648410	7691960	69	-55	269	258	RC
incl	Falcon	225.0	227.0	2.0	4.8	648410	7691960	69	-55	269	258	RC
incl	Falcon	235.0	243.0	8.0	3.3	648410	7691960	69	-55	269	258	RC



## JORC Code, 2012 Edition – Table 1

### **Section 1 Sampling Techniques and Data**

(Criteria in this section apply to all succeeding sections.)

Criteria	JORC Code explanation	Commentary
Sampling techniques	<ul> <li>Nature and quality of sampling (e.g. cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc.). These examples should not be taken as limiting the broad meaning of sampling.</li> <li>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</li> <li>Aspects of the determination of mineralisation that are Material to the Public Report.</li> <li>In cases where 'industry standard' work has been done this would be relatively simple (e.g. 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases, more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (e.g. submarine nodules) may warrant disclosure of detailed information.</li> </ul>	diamond rig drilling mainly NQ2 diameter core.  • After logging and photographing, NQ2 drill core was cut in half, with one half sent to the laboratory for assay and the other half retained. HQ and PQ core was quartered, with one quarter sent for assay. Holes were sampled over mineralised intervals to geological boundaries on a nominal 1m basis.  • Sample weights ranged from 2-4kg  • RC holes were sampled on a 1m basis with samples collected from a cone splitter mounted on the drill rig cyclone. 1m sample ranges from a typical 2.5-3.5kg
Drilling techniques	<ul> <li>Drill type (e.g. core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc.) and details (e.g. core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc.).</li> </ul>	(51mm), HQ3 (61mm), PQ (85mm).



Criteria	JORC Code explanation	Commentary
Drill sample recovery	<ul> <li>Method of recording and assessing core and chip sample recoveries and results assessed.</li> <li>Measures taken to maximise sample recovery and ensure representative nature of the samples.</li> <li>Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.</li> </ul>	<ul> <li>Core recovery is measured for each drilling run by the driller and then checked by the Company geological team during the mark up and logging process.</li> <li>RC and aircore samples were visually assessed for recovery.</li> <li>Samples are considered representative with generally good recovery. Deeper RC and aircore holes encountered water, with some intervals having less than optimal recovery and possible contamination.</li> <li>No sample bias is observed.</li> </ul>
Logging	<ul> <li>Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.</li> <li>Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc.) photography.</li> <li>The total length and percentage of the relevant intersections logged.</li> </ul>	logged and core was photographed by Company geologists, with systematic sampling undertaken based on rock type and alteration observed  RC and diamond sample results are appropriate for use in a resource estimation, except where sample recovery is poor.  The aircore results provide a good indication of mineralisation but are not used in resource estimation.
Sub-sampling techniques and sample preparation	<ul> <li>If core, whether cut or sawn and whether quarter, half or all core taken.</li> <li>If non-core, whether riffled, tube sampled, rotary split, etc. and whether sampled wet or dry.</li> <li>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</li> <li>Quality control procedures adopted for all subsampling stages to maximise representivity of samples.</li> <li>Measures taken to ensure that the sampling is representative of the in-situ material collected, including for instance results for field duplicate/second-half sampling.</li> <li>Whether sample sizes are appropriate to the grain size of the material being sampled.</li> </ul>	<ul> <li>Core samples were collected with a diamond drill rig drilling NQ2, HQ3 or PQ diameter core. After logging and photographing, NQ2 drill core was cut in half, with one half sent to the laboratory for assay and the other half retained. HQ and PQ core was quartered, with one quarter sent for assay. Holes were sampled over mineralised intervals to geological boundaries on a nominal 1m basis.</li> <li>RC sampling was carried out by a cone splitter on the rig cyclone and drill cuttings were sampled on a 1m basis in bedrock and 4m composite basis in cover.</li> <li>Aircore samples were collected by spear from 1m sample piles and composited over 4m intervals. Samples for selected holes were collected on a 1m basis by spear from 1m sample piles.</li> <li>Industry prepared independent standards are inserted approximately 1 in 20 samples.</li> <li>Each sample was dried, split, crushed and pulverised.</li> <li>Sample sizes are considered appropriate for the material sampled.</li> <li>The samples are considered representative and appropriate for this type of drilling</li> <li>Core and RC samples are appropriate for use in a resource estimate.</li> <li>Aircore samples are generally of good quality and appropriate for delineation of geochemical trends but are not generally used in resource estimates.</li> </ul>



Criteria	JORC Code explanation	Commentary
Quality of assay data and laboratory tests	<ul> <li>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.</li> <li>For geophysical tools, spectrometers, handheld XRF instruments, etc., the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.</li> <li>Nature of quality control procedures adopted (e.g. standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established.</li> </ul>	commercial independent laboratory in Perth, Australia.
Verification of sampling and assaying	<ul> <li>The verification of significant intersections by either independent or alternative company personnel.</li> <li>The use of twinned holes.</li> <li>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</li> <li>Discuss any adjustment to assay data.</li> </ul>	,
Location of data points	<ul> <li>Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.</li> <li>Specification of the grid system used.</li> <li>Quality and adequacy of topographic control.</li> </ul>	<ul> <li>Diamond and RC drill hole collar locations are located by DGPS to an accuracy of +/-10cm.</li> <li>Aircore hole collar locations are located by DGPS to an accuracy of +/-10cm., or by handheld GPS to an accuracy of 3m.</li> <li>Locations are given in GDA94 zone 50 projection</li> <li>Diagrams and location table are provided in the report</li> <li>Topographic control is by detailed airphoto and Differential GPS data.</li> </ul>
Data spacing and distribution	<ul> <li>Data spacing for reporting of Exploration Results.</li> <li>Whether the data spacing, and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.</li> <li>Whether sample compositing has been applied.</li> </ul>	Drill spacing varies from 80m x 40m to 320m x 80m.
Orientation of data in relation to	<ul> <li>Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.</li> </ul>	The drilling is believed to be approximately perpendicular to the strike of mineralisation where known and therefore the sampling is considered representative



Criteria	JORC Code explanation	Commentary				
geological structure	<ul> <li>If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.</li> </ul>	<ul> <li>of the mineralised zone.</li> <li>In some cases, drilling is not at right angles to the dip of mineralised structures and as such true widths are less than downhole widths. This is allowed for when geological interpretations are completed.</li> </ul>				
Sample security	The measures taken to ensure sample security.	Samples were collected by company personnel and delivered direct to the laboratory via a transport contractor.				
Audits or reviews	The results of any audits or reviews of sampling techniques and data.	<ul> <li>No audits have been completed. Review of QAQC data has been carried out by database consultants and company geologists.</li> </ul>				

Section 2 Reporting of Exploration Results (Criteria listed in the preceding section also apply to this section.)

Criteria	JORC Code explanation	Commentary
Mineral tenement and land tenure status	<ul> <li>Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.</li> <li>The security of the tenure held at the time of reporting along with any known impediments to obtaining a license to operate in the area.</li> </ul>	by De Grey Mining Ltd or its 100% owned subsidiaries.
Exploration done by other parties	<ul> <li>Acknowledgment and appraisal of exploration by other parties.</li> </ul>	<ul> <li>The tenements have had various levels of previous surface geochemical sampling and wide spaced aircore and RAB drilling by De Grey Mining. Limited previous RC drilling was carried out at the Scooby Prospect. Airborne aeromagnetics/radiometrics has been flown previously.</li> </ul>
Geology	Deposit type, geological setting and style of mineralisation.	<ul> <li>The mineralisation style is not well understood to date but is thought to be hydrothermally emplaced gold mineralisation within structures and intrusions. Host rocks comprise igneous rocks intruding Mallina Basin metasediments. Style is similar to some other Western Australian gold deposits.</li> </ul>
Drill hole Information	<ul> <li>A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes:</li> <li>easting and northing of the drill hole collar</li> <li>elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar</li> <li>dip and azimuth of the hole</li> <li>down hole length and interception depth</li> <li>hole length.</li> <li>If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding</li> </ul>	Drill hole location and directional information provide in the report.



Criteria	JORC Code explanation	Commentary
	of the report, the Competent Person should clearly explain why this is the case.	
Data aggregation methods	<ul> <li>In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g. cutting of high grades) and cut-off grades are usually Material and should be stated.</li> <li>Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail.</li> <li>The assumptions used for any reporting of metal equivalent values should be clearly stated.</li> </ul>	<ul> <li>grade of 0.5g/t gold with an internal dilution of 4m maximum.</li> <li>Higher grade intervals included in the above intercepts are reported at a 3g/t Au lower cut with an internal dilution of 2m maximum.</li> <li>Intercepts are length weighted averaged.</li> </ul>
Relationship between mineralisation widths and intercept lengths	reported.  • If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (e.g. 'down hole length, true width not known').	<ul> <li>approximately perpendicular to the strike of mineralisation.</li> <li>Drilling is not always perpendicular to the dip of mineralisation and true widths are less than downhole widths. Estimates of true widths will only be possible when all results are received, and final geological interpretations have been completed.</li> </ul>
Diagrams	<ul> <li>Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.</li> </ul>	<ul> <li>Plans and sections are provided in the report.</li> </ul>
Balanced reporting	<ul> <li>Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.</li> </ul>	figures and all significant results are provided in this report.
Other substantive exploration data	Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.	further details will be reported in future releases when data is available.
Further work	<ul> <li>The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling).</li> <li>Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.</li> </ul>	undertaken to test for strike extensions to mineralisation.