

3 October 2023

High Power Fixed Loop EM underway at Octagonal

HIGHLIGHTS

- New High-Power Fixed Loop Electro-Magnetics (HPFLTEM) survey over the entire Octagonal prospect designed to identify large sulphide bodies at depth now underway
- HPFLTEM survey and associated modelling scheduled to be completed within 5 weeks
- Detailed structural analysis of four completed diamond drillholes nearing completion
- Future diamond drillhole planning to follow receipt of HPFLTEM survey results, structural analysis, and downhole petrophysical data

Legend Mining Limited (Legend) is pleased to provide an update on exploration activities at the Octagonal prospect within the Rockford Project, Fraser Range, Western Australia (see Figures 1 and 2).

Legend Executive Chair, Mr Mark Wilson said: *“This new high power fixed loop EM survey is designed to identify conductors below 600m. As can be seen in Figure 1 in this announcement, the design loops are large, roughly 2km x 1km, and the survey covers the majority of the Octagonal prospect, specifically the mineralised eastern flank.*

“The results of this survey, along with interpretation of all data sets from Octagonal, is expected to deliver the next targets for diamond drilling at this prospect.”



Photo 1: HPFLTEM survey underway at Octagonal

TECHNICAL DISCUSSION

Exploration activities continue at the Octagonal prospect at the time of writing. Below is a summary of the exploration activities.

HIGH POWER FIXED LOOP ELECTRO-MAGNETICS SURVEY

Highpower EM Geophysical Services Pty Ltd have mobilised to site and commenced the maiden HPFLTEM survey at Octagonal.

The observed increase in sulphide content and tenor in OCDD004 and DHTEM response has given encouragement to deploy a new HPFLTEM survey across Octagonal, with the aim to identify large sulphide bodies at depth (see Figure 1 and Photo 1). Forward modelling conducted during the HPFLTEM programme design suggests large sulphide accumulations should be detectable below 600m depth with the large loop, high current, and ultra-low frequency parameters of the purpose-designed survey.

The HPFLTEM survey and associated modelling is expected to be completed within 5 weeks.

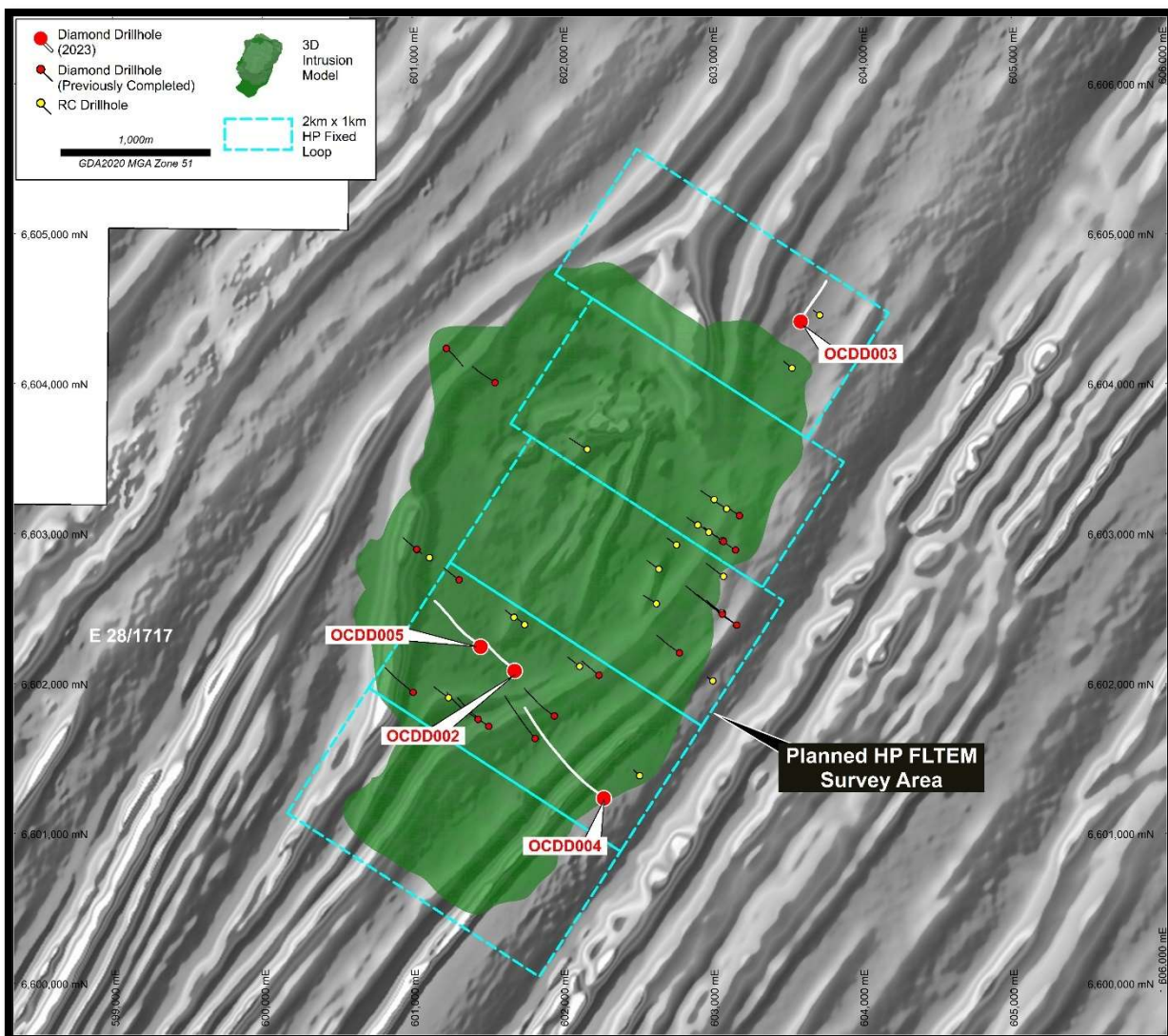


Figure 1: Octagonal plan view showing proposed HPFLTEM survey loops and the interpreted Octagonal intrusion model projected to surface on AMAG.

STRUCTURAL ANALYSIS

A detailed structural logging campaign is nearing completion on the four completed diamond drillholes at Octagonal (see Figure 1 and Photos 2 and 3). Structural expert Jon Standing from Model Earth Pty Ltd has completed the data acquisition phase of the structural review. The data gathered from the recently completed diamond drillholes will give new lithological and structural context, critical to the understanding of the Octagonal Intrusive Complex (OIC). Coupled with new HPFLTEM data and refined seismic interpretations post-acquisition of the downhole petrophysical property data, these new datasets add to the existing foundation data to evolve the targeting model across the OIC.



Photo 2: Carbonate contaminated orthopyroxenite and garnet-rich pelite contact from OCDD002 from 1,003m.



Photo 3: Faulted contact between the OIC and gneissic country rock from OCD004 from 1,682m

FUTURE OCTAGONAL PROGRAMME

- HPFLTEM data acquisition
- HPFLTEM data modelling
- Compilation of detailed structural analysis to evolve structural model
- Downhole petrophysics on completed drillholes
- Diamond drillhole target generation

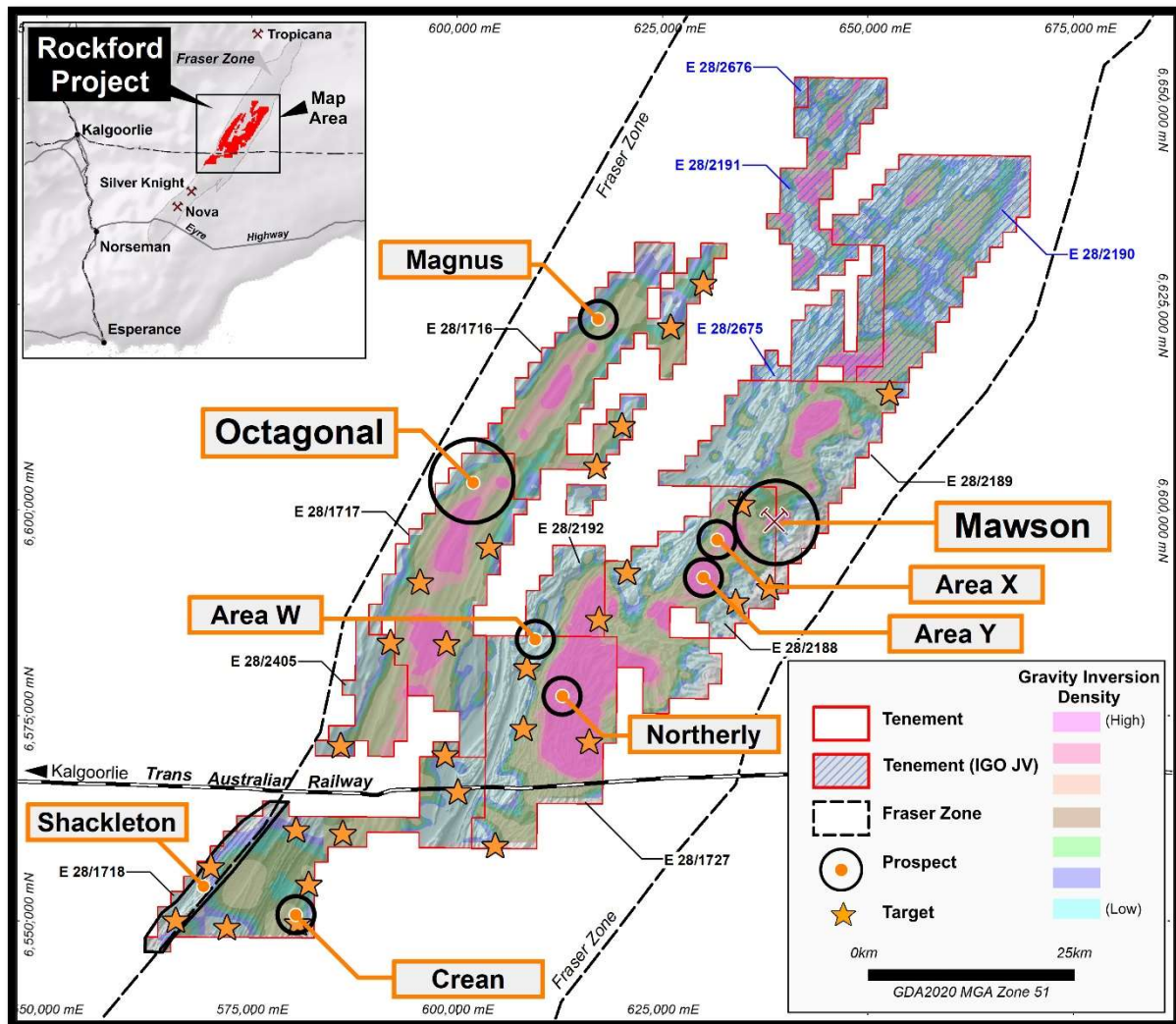


Figure 2: Rockford Project Prospect Locations on Gravity.

Authorised by Oliver Kiddie, Managing Director.

Competent Person Statement

The information in this report that relates to Exploration Results is based on information compiled by Mr Oliver Kiddie. Mr Kiddie is a Member of the Australasian Institute of Mining and Metallurgy and a full-time employee of Legend Mining Limited. Mr Kiddie has sufficient experience that is relevant to the styles of mineralisation and types 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 Resources and Ore Reserves” (JORC Code). Mr Kiddie consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

The information in this report that relates to Legend’s Exploration Results is a compilation of previously released to ASX by Legend Mining (28 March 2023, 20 April 2023, 17 May 2023, 5 June 2023, 27 June 2023, 31 July 2023, and 31 August 2023). Mr Oliver Kiddie consents to the inclusion of these Results in this report. Mr Kiddie has advised that this consent remains in place for subsequent releases by Legend of the same information in the same form and context, until the consent is withdrawn or replaced by a subsequent report and accompanying consent. Legend confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements and that all material assumptions and technical parameters in the market announcements continue to apply and have not materially changed. Legend confirms that the form and context in which the Competent Person’s findings are presented have not been materially modified from the original market announcements.

Forward Looking Statements

This announcement contains “forward-looking statements” within the meaning of securities laws of applicable jurisdictions. Forward-looking statements can generally be identified by the use of forward-looking words such as “may”, “will”, “expect”, “intend”, “plan”, “estimate”, “anticipate”, “believe”, “continue”, “objectives”, “outlook”, “guidance” or other similar words, and include statements regarding certain plans, strategies and objectives of management and expected financial performance. Forward-looking statements are provided as a general guide only and should not be relied upon as an indication or guarantee of future performance. These forward-looking statements are based upon a number of estimates, assumptions and expectations that, while considered to be reasonable by Legend Mining Limited, are inherently subject to significant uncertainties and contingencies, involve known and unknown risks, uncertainties and other factors, many of which are outside the control of Legend Mining Limited and any of its officers, employees, agents or associates.

Actual results, performance or achievements may vary materially from any projections and forward-looking statements and the assumptions on which those statements are based. Exploration potential is conceptual in nature, to date there has been insufficient exploration to define a Mineral Resource and it is uncertain if further exploration will result in the determination of a Mineral Resource. Readers are cautioned not to place undue reliance on forward-looking statements and Legend Mining Limited assumes no obligation to update such information made in this announcement, to reflect the circumstances or events after the date of this announcement.

Visit www.legendmining.com.au for further information and announcements.

For more information contact:

Mr Mark Wilson
Executive Chair
Ph: +61 8 9212 0600

Mr Oliver Kiddie
Managing Director
Ph: +61 8 9212 0600

Appendix 1:

Legend Mining Ltd – Octagonal Exploration Programme - Rockford Project JORC Code Edition 2012: Table 1

Section 1: Sampling Techniques and Data

| Criteria | JORC Code Explanation | Commentary |
|----------------------------|--|---|
| Sampling techniques | <ul style="list-style-type: none"> <i>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.</i> <i>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</i> <i>Aspects of the determination of mineralisation that are Material to the Public Report. 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.</i> | <p>HiSeis Pty Ltd conducted a ground seismic survey between 7 November and 24 November 2022, with survey details below.</p> <ul style="list-style-type: none"> Equipment area coverage: ~19.2 km² Total receivers: 10 986 Total source points: 8357 Sample rate: 2 ms Record length: 3 s Source: INOVA AHV-IV (60000 lb) Source array: 1 x AHV-IV Source number: 2 ping pong <p>Recording Filters:</p> <ul style="list-style-type: none"> Hi-cut: 0.8 Nyquist set to 205 Hz Notch: out Diversity stack: no <p>Source Parameters:</p> <ul style="list-style-type: none"> Source spacing: 18m Source line spacing: 108m (central area), 216m (outer area) Sweep frequency: 3-180 Hz Sweep length: 20 s Sweep type: -0.8 db/oct Source array: stacked Tapers: 750 ms start and 350 ms end Maximum source gaps: as required for safety Drive level: 65% <p>Receiver Parameters:</p> <ul style="list-style-type: none"> Group spacing: 18 m Receiver line spacing: 108m (central area), 216m (outer area) Geophone type: Quantum 5 Hz (geophone (PS-5GR)) and STRYDE 10 Hz (accelerometer) Case: land Frequency: 5 Hz and 10 Hz Geophones per group: 1 Geophone spacing: 18 m <ul style="list-style-type: none"> No diamond drilling has been undertaken. |
| Drilling techniques | <ul style="list-style-type: none"> <i>Drill type (e.g., core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc.) and details (e.g.,</i> | <ul style="list-style-type: none"> No diamond drilling has been undertaken. |

| Criteria | JORC Code Explanation | Commentary |
|--|---|--|
| <p>Drill sample recovery</p> | <p><i>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.).</i></p> <ul style="list-style-type: none"> • <i>Method of recording and assessing core and chip sample recoveries and results assessed.</i> • <i>Measures taken to maximise sample recovery and ensure representative nature of the samples.</i> • <i>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.</i> | <ul style="list-style-type: none"> • No diamond drilling has been undertaken. |
| <p>Logging</p> | <ul style="list-style-type: none"> • <i>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.</i> • <i>Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc.) photography.</i> • <i>The total length and percentage of the relevant intersections logged.</i> | <ul style="list-style-type: none"> • No diamond drilling has been undertaken. |
| <p>Sub-sampling techniques and sample preparation</p> | <ul style="list-style-type: none"> • <i>If core, whether cut or sawn and whether quarter, half or all core taken.</i> • <i>If non-core, whether riffled, tube sampled, rotary split, etc. and whether sampled wet or dry.</i> • <i>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</i> • <i>Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.</i> • <i>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.</i> | <ul style="list-style-type: none"> • No diamond drilling has been undertaken. |

| Criteria | JORC Code Explanation | Commentary |
|---|---|--|
| | <ul style="list-style-type: none"> Whether sample sizes are appropriate to the grain size of the material being sampled. | |
| Quality of assay data and laboratory tests | <ul style="list-style-type: none"> The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total. 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. 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. | <ul style="list-style-type: none"> No diamond drilling has been undertaken. |
| Verification of sampling and assaying | <ul style="list-style-type: none"> The verification of significant intersections by either independent or alternative company personnel. The use of twinned holes. Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols. Discuss any adjustment to assay data. | <ul style="list-style-type: none"> No diamond drilling has been undertaken. |
| Location of data points | <ul style="list-style-type: none"> 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. Specification of the grid system used. Quality and adequacy of topographic control. | <ul style="list-style-type: none"> The drillhole collars were surveyed with a handheld GPS unit with an accuracy of $\pm 5\text{m}$ which is considered sufficiently accurate for the purpose of the drillhole. All co-ordinates are expressed in GDA2020 datum, Zone 51. Regional topographic control has an accuracy of $\pm 2\text{m}$ based on detailed DTM data. |
| Data spacing and distribution | <ul style="list-style-type: none"> Data spacing for reporting of Exploration Results. Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity | <ul style="list-style-type: none"> No diamond drilling has been undertaken. |

| Criteria | JORC Code Explanation | Commentary |
|--|--|--|
| | <p><i>appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.</i></p> <ul style="list-style-type: none"> • <i>Whether sample compositing has been applied.</i> | |
| Orientation of data in relation to geological structure | <ul style="list-style-type: none"> • <i>Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.</i> • <i>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.</i> | <ul style="list-style-type: none"> • No diamond drilling has been undertaken. |
| Sample security | <ul style="list-style-type: none"> • <i>The measures taken to ensure sample security.</i> | <ul style="list-style-type: none"> • No diamond drilling has been undertaken. |
| Audits or reviews | <ul style="list-style-type: none"> • <i>The results of any audits or reviews of sampling techniques and data.</i> | <ul style="list-style-type: none"> • Internal audits/reviews of seismic procedures are ongoing, with external reviews managed by Terra Resources Pty Ltd. |

Section 2: Reporting of Exploration Results

| Criteria | JORC Code Explanation | Commentary |
|--|--|---|
| Mineral tenement and land tenure status | <ul style="list-style-type: none"> • <i>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.</i> • <i>The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.</i> | <ul style="list-style-type: none"> • The Rockford Project comprises eight granted exploration licences, covering 2,301km², (Legend manager). • Rockford JV tenements: <ul style="list-style-type: none"> ➢ E28/2188, 2189, 2192 (70% Legend, 30% Rockford Metals Pty Ltd) ➢ E28/1716, 1717, 1718, 1727 (70% Legend, 30% Ponton Minerals Pty Ltd). • Legend 100%: E28/2405. • The Project is located 280km east of Kalgoorlie mostly on vacant crown land with the eastern portion on Kanandah Pastoral Station. • Tenements E28/1716, 1717, 2192, 2405 are covered by the Upurli Upurli Nguratja Native Title Claim. • Tenements E28/2188, and E28/2189 are covered 20% and 85% respectively by the Untiri Pulka Native Title Claim with the remaining area covered by the Upurli Upurli Nguratja Native Title Claim. • Tenements E28/1718 and E28/1727 are covered 90% and 20%, respectively by the Ngadju Native |

| Criteria | JORC Code Explanation | Commentary |
|--|--|--|
| | | <p>Title Claim with the remaining area covered by the Upurli Upurli Nguratja Native Title Claim.</p> <ul style="list-style-type: none"> The tenements are in good standing and there are no known impediments. |
| Exploration done by other parties | <ul style="list-style-type: none"> <i>Acknowledgment and appraisal of exploration by other parties.</i> | <ul style="list-style-type: none"> Not applicable, not referred to. |
| Geology | <ul style="list-style-type: none"> <i>Deposit type, geological setting and style of mineralisation.</i> | <ul style="list-style-type: none"> The primary target is Nova style nickel-copper mineralisation hosted in mafic/ultramafic intrusives within the Fraser Zone of the larger Albany-Fraser Orogen. Secondary targets include VMS style zinc-copper-lead-silver mineralisation and structurally controlled Tropicana style gold. |
| Drill hole Information | <ul style="list-style-type: none"> <i>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:</i> <ul style="list-style-type: none"> <i>easting and northing of the drill hole collar</i> <i>elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar</i> <i>dip and azimuth of the hole</i> <i>down hole length and interception depth</i> <i>hole length.</i> <i>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 of the report, the Competent Person should clearly explain why this is the case.</i> | <ul style="list-style-type: none"> No diamond drilling has been undertaken. |

| Criteria | JORC Code Explanation | Commentary |
|---|---|--|
| Data aggregation methods | <ul style="list-style-type: none"> <i>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.</i> <i>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.</i> <i>The assumptions used for any reporting of metal equivalent values should be clearly stated.</i> | <ul style="list-style-type: none"> No diamond drilling has been undertaken. |
| Relationship between mineralisation widths and intercept lengths | <ul style="list-style-type: none"> <i>These relationships are particularly important in the reporting of Exploration Results.</i> <i>If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.</i> <i>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').</i> | <ul style="list-style-type: none"> No diamond drilling has been undertaken. |
| Diagrams | <ul style="list-style-type: none"> <i>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.</i> | <ul style="list-style-type: none"> Project location maps and HPFLTEM plan has been included in the body of the report. |
| Balanced reporting | <ul style="list-style-type: none"> <i>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.</i> | <ul style="list-style-type: none"> All significant results are reported. |
| Other substantive exploration data | <ul style="list-style-type: none"> <i>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;</i> | <ul style="list-style-type: none"> Detailed high quality aeromagnetic and gravity datasets, aircore drilling, ground EM surveys and DHTM surveys have been used to target drilling. Highpower EM Geophysical Services Pty Ltd completed high powered moving loop electromagnetic |

| Criteria | JORC Code Explanation | Commentary |
|----------------------------|--|---|
| | <p><i>metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.</i></p> | <p>(MLTEM) surveying over the Octagonal prospect.</p> <ul style="list-style-type: none"> • Highpower EM Geophysical Services Pty Ltd will complete high powered fixed loop electromagnetic (HPFLTEM) surveying over the Octagonal prospect. <p>MLTEM Details</p> <ul style="list-style-type: none"> • Loop Size: 300 x 300m, single turn • Line/Station Spacing: 500/250m spaced lines with 100m stations • Transmitter: HPEM HPTX (200 amps) • Receiver: EMIT SMARTem24 • Sensor: HT SQUID LANDTEM 3 component B field sensor • Time base/freq.: 0.25Hz (500msec time base), 0.5-1.0msec ramp <p>FLTEM Details</p> <ul style="list-style-type: none"> • Loop Size: 2km x 1km single turn, 1km x 1km Figure 8 configuration • Line/Station Spacing: 250m spaced lines with 125m stations • Transmitter: HPEM HPTX (~200 amps) • Receiver: EMIT SMARTem24 • Sensor: HT SQUID LANDTEM 3 component B field sensor • Time base/freq.: 0.125-0.25Hz (1,000-2,000msec time base), 0.5-1.0msec ramp • Readings/Stacks: 2-3 repeatable readings, 64 stacks. |
| <p>Further work</p> | <ul style="list-style-type: none"> • <i>The nature and scale of planned further work (e.g., tests for lateral extensions or depth extensions or large-scale step-out drilling).</i> • <i>Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.</i> | <ul style="list-style-type: none"> • Full integration of geological, structural, geophysical (including seismic), and geochemical data. • High-power surface EM surveying • Plan further diamond drillholes. • Plan further EM surveys. • Petrophysical property measurements |