

- Gravelotte Emerald Project
- Hard Rock Trial Mining to commence in early 2019, after successful Phase 1 Trial Mining of dump material



The summary information contained herein has been provided by Magnum Mining and Exploration Limited ("Magnum" or the "Company"). No representation, expressed or implied, or warranty as to the accuracy or completeness of the information contained herein is made by any party and nothing contained herein shall be relied upon as a promise or representation as to the future. In all cases, recipients should conduct their own investigation and analysis of Magnum.

The information is neither an offer to sell nor a solicitation of an offer to buy any securities. The contents of this presentation are confidential and must not be copied, published, reproduced, distributed in whole or in part to others at any time by recipients. This presentation is being provided to recipients on the basis that they keep confidential any information contained herein or otherwise made available, whether oral or in writing, in connection with the Company.

All statements in this presentation, other than statements of historical facts, which address future production, reserve or resource potential, exploration drilling, exploitation activities and events or developments that the Company expects to occur, are forward looking statements. Although the Company believes the expectations expressed in such statements are based on reasonable assumptions, such statements are not guarantees of future performance and actual results or developments may differ materially from those in forward-looking statements.

Forward-looking statements involve and are subject to known and unknown risks, uncertainties and other factors which may cause the actual results, performance or achievements of the Company and/or its subsidiaries to be materially different from any future results, performance or achievements expressed or implied by the forward-looking information. Such factors include, among others, general business, economic, competitive, political and social uncertainties; the actual results of current exploration activities and feasibility studies; assumptions in economic valuations which prove to be inaccurate; possible variations of ore grade recovery or rates; climatic conditions; political instability; insurrection or war; arbitrary decisions by governmental authorities; delays in obtaining governmental approvals or financing or in the completion of development or construction activities.

To the extent permitted by law, the Company accepts no responsibility or liability for any losses or damages of any kind arising out of the use of any information contained in this presentation. Recipients should make their own enquiries in relation to any investment decisions.

Although the Company has attempted to identify important factors that could cause actual actions, events or results to differ materially from those described in forward-looking information, there may be other factors that cause actions, events or results to differ from those anticipated, estimated or intended. Forward-looking information contained herein is current as at the date of this presentation and the Company disclaims any obligation to update any forward-looking information, whether as a result of new information, future events or results otherwise. There can be no assurance that forward-looking information or statements will prove to be accurate, as actual results and future events could differ materially from those anticipated in such information or statements. Accordingly, readers should not place undue reliance on forward-looking statements.



- ✓ Near term commercial development opportunity.
- ✓ Granted Mining Licence and Permits.
- ✓ Significant mining history and geological data.
- ✓ Extensive infrastructure.
- ✓ Emerald brand awareness.
- ✓ Gravelotte is located in the Limpopo Province, South Africa.







Strong Production History

- In the 1950's & '60's, Gravelotte was the largest emerald mine in the world, employing over 400 sorters, recovering a total of <u>112.7 million</u> carats of emeralds over the life of operations.
- Whilst a complete historical data package is not available, the data that has been sourced has provided high confidence for the projected re-development of Gravelotte.
- Operations in the early 1980's are reported to have returned a recovered grade in excess of <u>6 g/t (30 carats/t)</u> of exportable emerald.
- Anecdotal evidence from previous owners indicates that processing security was poor and as a result the historical recovered grade is considered to be very conservative.
- Magnum's evaluation of Gravelotte is at an advanced stage with the Company's studies targeting an initial production level of around <u>3 million carats per</u> annum.



Phase 1 – Dump Mining

Successful completion of Phase 1 Trial Mining has allowed the Company to finalise the Phase 2 Hard Rock Plant Parameters.

Results of Phase 1 Dump Mining:

- Treated <u>256.6 tonnes</u> of crushed dump material from four dumps and recovered <u>11,775 carats of emeralds</u>. This is an average recovered grade of <u>46 carats</u> per tonne.*
- ✓ Successfully determined the optimum crushing methodology to maximise the liberation of emeralds from the host rock, whilst minimising damage to the emeralds (9.5mm 12.5mm).
- ✓ Determined the critical data for the design and construction of a trial mining plant capable of processing 2,000 tonnes of ore per month.
- ✓ Allowed detailed assessment of Optical and XRF sorting solutions specific to Gravelotte material.
- ✓ Testing of both sorting technologies has been successful, however XRF technology appears most favourable. Detailed tests to be concluded shortly.

^{*} Refer to ASX announcement 9 July 2018



Phase 2 Trial Mining – Key Parameters

- Tonnage to be mined: 8,000 tonnes hard rock.
- Hard Rock Pits Cobra North, Discovery.
- Processing: On site, crushing, washing and XRF/optical sorting.
- Projected recovered volume: +250,000 carats.
- Projected all up operating costs: <US\$2/ct.
- ✓ Crush size determined.
- ✓ Plant designed.
- ✓ Crusher, washing plant and sorter budgeted \$750,000 (2,000 tonne/month)







Excavation of waste dump

Excavated waste dumps stockpiled for processing



Phase 2 Trial Mining – Planned Timetable

November 2018

- Select and purchase/lease sorting option
- Purchase refurbished cone crusher
- Fabricate/refurbish washing plant

February 2019

- Commission plant and sorter
- Mine 8,000 tonne
- Commence treating 2,000 tonne per month

June 2019

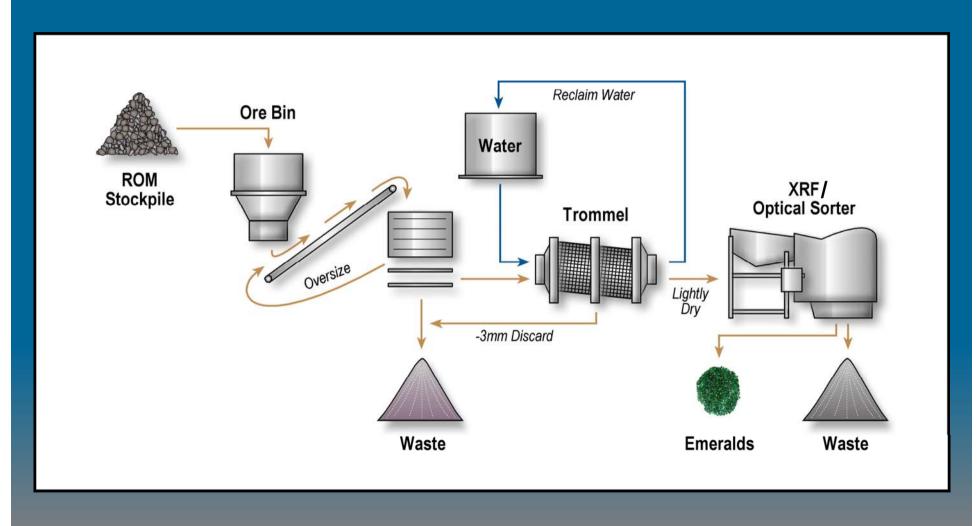
- Completion of processing 8,000 tonne
- Cleaning, sorting grading of emeralds commences

August/September 2019

- Marketing of emeralds
- Auction of emeralds



Phase 2 Trial Mining – Processing Flowsheet



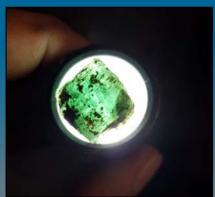


Advanced Development Potential

- Historic drilling and mining data confirms continuation of emerald grades and schist thickness at depth.
- Significant tailings opportunity situated onsite.
- Existing infrastructure.
- Historic Cobra and Discovery pits targeted for near term hard rock development.
- Sales and demand information from the sale of emeralds recovered from the Phase 2 Trial Mining will underpin commercial development decision.



Schist host with emeralds



41.5 carat emerald



Partially cleaned emeralds ranging from 3.5 to 41.5 carats in weight and 5-25mm in size



Extensive Infrastructure

- √ 55km from Phalaborwa and the Kruger National Park.
- ✓ Serviced by ESCOM grid power.
- ✓ Major sealed road to mine gate.
- ✓ Guest house, 17 x 3 bedroom houses, club house, and amenities.
- ✓ Mine offices, laboratory, admin offices and clinic.
- ✓ Workshop and garages.
- ✓ Mine hostel that can accommodate 350 mine workers.







Gravelotte Summary

- ✓ Historic mining area
- ✓ Geology well known and understood
- ✓ Hard rock as well as tailings resource potential once economic values have been established
- ✓ Cobra branded emeralds well known in market place
- ✓ Existing infrastructure
- ✓ Granted Mining Licence and permits
- ✓ Simple pathway to commercial operations
- ✓ Reduced capex compared to green fields development
- ✓ Attractive economics
- ✓ In demand commodity
- ✓ South Africa open again for mining



Issued Capital and Company Directors

No. of Shares on Issue: 279,578,818

• No. of Unlisted Options: 9,000,000

Directors:

Howard Dawson – *Non-Executive Chairman*Grant Button – *Chief Executive Officer*Francesco Cannavo – *Non-Executive Director*



Magnum Summary

- Phase 2 Trial Mining to commence in early 2019.
- Near term production opportunities.
- Tight company structure.
- Parcel of emeralds to be produced will provide feedback on demand and value of emeralds.

The information in this presentation that relates to Exploration Results and Mineral Resources complies with the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code) and has been compiled and assessed under the supervision of Mr Howard Dawson, Non-Executive Director of Magnum Mining and Exploration Limited. Mr Dawson is a member of the Australian Institute of Geoscientists and 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 JORC Code. Mr Dawson consents to the inclusion in this presentation of the matters based on his information in the form and context in which it appears.