Midmetal Pursues MOU With Magnum

HIGHLIGHTS

- Middle East for Metallic Industrial ("Midmetal") enters into nonbinding MOU with Magnum
- The MOU forms the basis for the negotiation of a future agreement
- Midmetal wishes to form strategic partnerships in the Buena Vista Iron and Appalachian Iron Projects with Magnum
- MOU seeks to pursue the development of a green pig iron project through Magnum's access to the HIsmelt technology and use of biochar in the reduction process
- The Company's focussed strategy for project development is outlined in the presentation attached

Magnum Mining & Exploration Limited (ASX: MGU, "Magnum" or "the Company") is delighted to announce that it has entered into a nonbinding Memorandum of Understanding (the "MOU") with Middle East for Metallic Industrial ("Midmetal"). The MOU is expected to lead to the negotiation of a definitive agreement to form a strategic alliance for the development of Magnum's proposed magnetite mine and processing plant at its wholly-owned Buena Iron Project in Nevada, and to pursue the development of HIsmelt facilities in the USA.

The MOU is nonbinding and either party may terminate it on a no cause basis without liability.

The MOU envisages that Midmetal will become a magnetite concentrate off-take customer as a partner in developing the Buena Vista mine and beneficiation plant. The ultimate aim of the agreement is to pursue the development of green pig iron production projects in North America, Saudi Arabia and other regions through the deployment of HIsmelt technology. Parallel to these activities will see the development of biochar production in those areas to make HIsmelt pig iron production truly green through the use of sustainable, neutral emission biomass.

As previously announced[1], Magnum holds a conditional HIsmelt patent application license from Shandong Molong Petroleum Machinery Co Ltd and Shandong Province Metallurgical Engineering Co. Ltd that allows Magnum to construct and operate HIsmelt plants. The licence will be ratified once a Feasibility Study is completed on either of Magnum's projects at Buena Vista[2] or West Virginia[3].

Mr Neil Goodman, CEO of Magnum observed, *"This tie-up with Midmetal is an exciting development in the Buena Vista and West Virginia story. Saudi Arabia's diversification out of petroleum presents a compelling opportunity in established markets. Magnum looks forward to working with Midmetal to developing a mutually beneficial relationship."*

[1] ASX:MGU "Magnum secures pathway to HIsmelt licence", 18 May, 2023.

[2] ASX:MGU "Positive Scoping Study validates Buena Vista Iron Project", 14 August, 2023.

[3] ASX:MGU "Appalachian presentation – West Virginia Project", 14 October, 2022.

Update presentation

Magnum has recently finalised a Scoping Study[4] and a technical feasibility refresh[5]. A presentation of the Company's progress towards delivering the Buena Vista Iron Project and the Appalachian Iron Project is attached.

About Midmetal

Midmetal is a Saudi company who is exploring the utilisation of the latest technologies to produce pig iron in Saudi Arabia as part of the "Nusaned Initiative". The "Nusaned Initiative" prioritises technologies to achieve the "Saudi Vision 2030" of increased localisation of downstream industries and reduce carbon emission. Funding for this pioneer initiative will be made by Saudi investors.

About HIsmelt

HIsmelt is a technology disruptor that can deliver high purity pig iron now, without awaiting the development of technically challenging and economically burdensome hydrogen reduction techniques. It is a direct iron reduction method that can use biochar, sourced from renewable biomass, as the iron reductant. The use of renewable biomass makes the technology emissions neutral.

CAUTIONARY STATEMENTS

FORWARD LOOKING STATEMENTS

This release contains "forward-looking information" that is based on the Company's expectations, estimates and projections as of the date on which the statements were made. This forward-looking information includes, among other things, statements with respect to studies, the Company's entry into a definitive agreement with Midmetal, the Company's business strategy, plan, development, objectives, performance, outlook, growth, cash flow, projections, targets and expectations. Generally, this forward-looking information can be identified by the use of forward-looking terminology such as 'outlook', 'anticipate', 'project', 'target', 'likely',' believe', 'estimate', 'expect', 'intend', 'may', 'would', 'could', 'should', 'scheduled', 'will', 'plan', 'forecast', 'evolve' and similar expressions. Persons reading this news release are cautioned that such statements are only predictions, and that the Company's actual future results or performance may be materially different. Forward-looking information is subject to known and unknown risks, uncertainties and other factors that may cause the Company's actual results, level of activity, performance or achievements to be materially different from those expressed or implied by such forward-looking information.

Forward-looking information is developed based on assumptions about such risks, uncertainties and other factors set out herein, including but not limited to general business, economic, competitive, political and social uncertainties; the actual results of current development activities; conclusions of economic evaluations; changes in project parameters as plans continue to be refined; future prices of metals; failure of plant, equipment or processes to operate as anticipated; accident, labour disputes and other risks of the mining industry; and delays in obtaining governmental approvals or financing or in the completion of development or construction activities. This list is not exhaustive of the factors that may affect our forward-looking information. These and other factors should be considered carefully, and readers should not place undue reliance on such forward-looking information.

Neither the Company, nor any other person, gives any representation, warranty, assurance or guarantee that the occurrence of the events expressed or implied in any forward-looking statement will actually occur. Except as required by law, and only to the extent so required, none of the Company, its subsidiaries or its or their directors, officers, employees, advisors or agents or any other person shall in any way be liable to any person or body for any loss, claim, demand, damages, costs or expenses of whatever nature arising in any way out of, or in connection with, the information contained in this document. The Company disclaims any intent or obligations to or revise any forward-looking statements whether as a result of new information, estimates, or options, future events or results or otherwise, unless required to do so by law.

[4] ASX:MGU "Positive Scoping Study Validates Buena Vista Iron Project", 14 August, 2023

[5] ASX:MGU "Buena Vista Technical Feasibility Refresh Completed", 21 August, 2023

COMPETENT PERSONS STATEMENT
RESOURCE ESTIMATION

The information in this report that relates to Mineral Resources is based on information compiled by Mr Jonathon Abbott, a Competent Person who is a Member of the Australian Institute of Geoscientists and a full time employee of MPR Geological Consultants Pty Ltd. Mr Abbott has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 edition of the "Australasian Code for Reporting Exploration Results, Mineral Resources and Ore Reserves". Mr Abbott consents to the inclusion of the matters outlined in Appendix A in the form and context in which it appears.

The company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified.

COMPETENT PERSONS STATEMENT
EXPLORATION TARGET ESTIMATION

The information in this report that relates to an Exploration Target is based on information compiled by Mr Marcus Flis, a Competent Person who is a Fellow of the Australasian Institute of Mining and Metallurgy and a full time employee of Rountree Pty Ltd. Mr Flis has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 edition of the "Australasian Code for Reporting Exploration Results, Mineral Resources and Ore Reserves". Mr Flis consents to the inclusion of the matters outlined in Appendix A in the form and context in which it appears.

ORDER OF THE BOARD

LUKE MARTINO Company Secretary

Email: info@mmel.com.au
Phone: +61 403 635 555

EVAN SMITH Investor Relations

Email: evan.smith@advisir.com.au
Phone: +61 431 176 607

The Buena Vista Iron Deposit

Buena Vista Iron Deposit is located approximately 160km east-north-east of Reno in the mining friendly state of Nevada, United States. It was discovered in the late 1890's and in the late 1950's to early 1960's around 900,000 tonnes of direct shipping magnetite ore with an estimated grade of 58% Fe was mined.

In the 1960's, US Steel Corporation acquired the Buena Vista Project and carried out an extensive exploration program including 230 diamond drill holes and considerable metallurgical test work. Richmond Mining Limited, an ASX listed company, acquired Buena Vista in 2009 and commenced a detailed exploration program culminating in a definitive feasibility study in 2013. A key component of these studies was extensive investigation of the optimal logistics plan for the deposit's development. This included the negotiation of in-principle agreements with existing rail and port operators and the securing of all major mining permits. Detailed costings were completed on the trucking or slurry pipeline options to deliver the concentrate to the rail head located some 50 kilometres from mine site. A significant decline in iron ore prices to less than US$50/ tonne caused the then proposed development of Buena Vista to be deferred.

GEOLOGY

The Buena Vista Project magnetite deposits are the product of late-stage alteration of a localised intrusive local gabbro that resulted in intensely scapolitised lithologies and the deposition of magnetite. The most well-known example of this type of magnetite mineralisation is the Kiruna magnetite deposit in Sweden, which has been in production since the early 1900's.

The distribution and nature of the magnetite mineralisation at Buena Vista is a function of ground preparation by faulting and fracturing, forming a series of open fractures and breccia zones. These ground conditions produce variations in mineralisation types from massive pods grading +60% magnetite to lighter disseminations grading 10-20% magnetite.

Metasomatic magnetite deposits such as those at Buena Vista have important positive beneficiation characteristics over the other main type of magnetite deposit which is a banded iron hosted magnetite, also known as a taconite.

The Buena Vista ore is of magmatic origin and as a consequence is coarser grained and softer than banded iron hosted ores. Industry standard crushing, grinding and magnetic separation produces a concentrate grade of +67.5% Fe with very low levels of impurities.

RESOURCE

The Mineral Resource Estimate (JORC(2012)) at Buena Vista (ASX:MGU 23 March 2021) is:

Category	Million Tonnes	Fe %	DTR %
Indicated Resource	151	19	23.2
Inferred Resource	81	18	22
Total Resource	232	18.6	22.6

The company confirms that all material assumptions and technical parameters underpinning the estimates continue to apply and have not materially changed

In addition, an Exploration Target Estimate has been completed (ASX:MGU 13 January, 2023):

Category	Million Tonnes	Fe %
Exploration Target	407 to 540	15 to 22

The potential quantity and grade of the Exploration Target is conceptual in nature, there has been insufficient exploration to estimate a Mineral Resource and it is uncertain if further exploration will result in the estimation of a Mineral Resource

DEVELOPMENT

Mining permits are in place to develop the Buena Vista Iron Mine. The Company has re-aligned the project from a simple mining, concentration and exporting model to a green pig iron producer. Using cutting edge technology in tandem with biochar sources, the Company is capitalising on a first-mover advantage to supply green pig iron to the USA steel industry.

DRI GRADE IRON ORE AND GREEN PIG IRON

Two leading projects to feed a low emissions steel industry

MAGNUM MINING AND EXPLORATION LIMITED

Company Presentation 1 September 2023

Complementary projects for a vertically integrated business

Buena Vista Iron Project, Nevada

> A fully permitted mine

> Over 230Mt of magnetite resources[1]

> Technical feasibility refresh completed

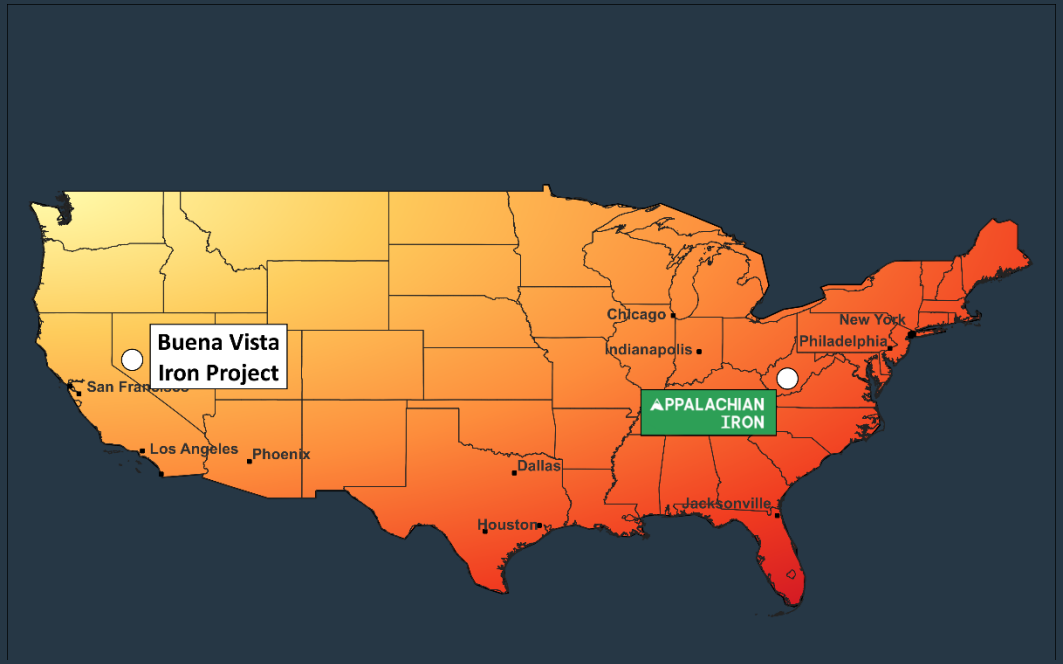
> Fast low-cost path to production

Appalachian Iron, West Virginia

> Green Pig Iron opportunity

> Underpinned by the HIsmelt technology – a carbon neutral process that doesn't need to wait for hydrogen technology

> Strong backing from US Senator[3]



[1]Refer to slide 6 for resource details

Buena Vista Iron Mine: in a Mining Friendly Jurisdiction

MAGNUM MINING AND EXPLORATION LIMITED

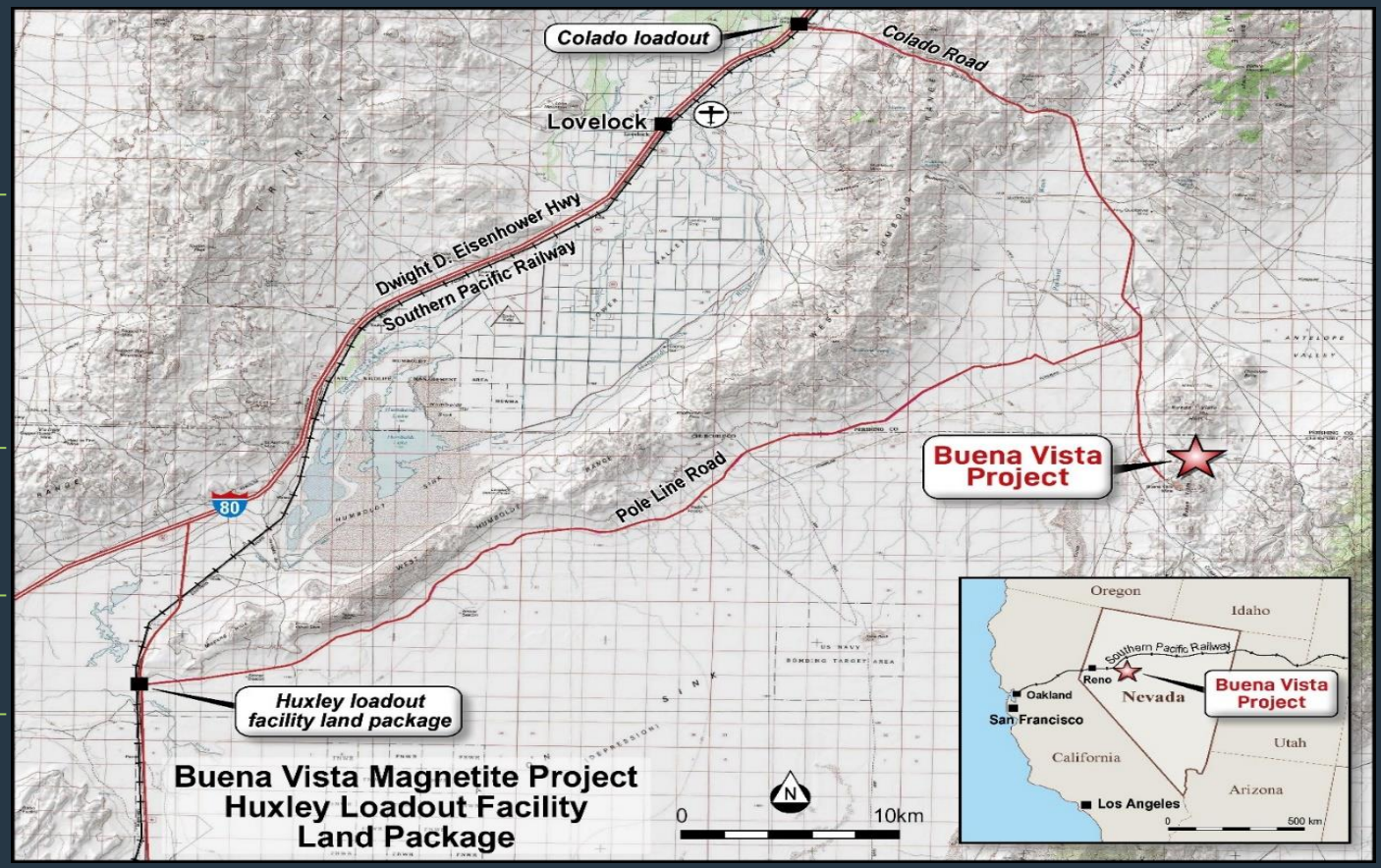
Location
> Mining friendly state of Nevada, USA
> Average 450km from three export ports

Infrastructure rich area
> Rail, power, highway in close proximity
> Three potential dormitory towns within 30min drive
> 90min drive from Reno

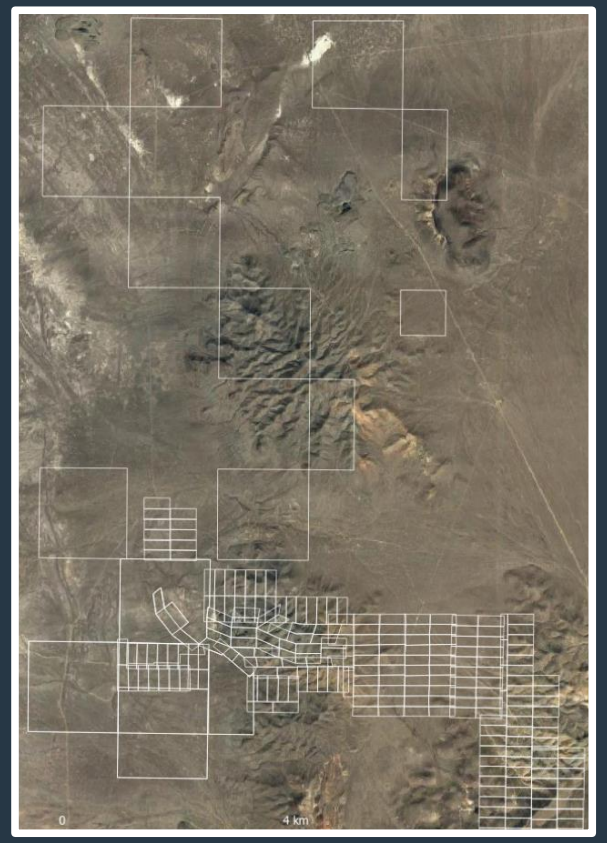
Control of large area of land
> Under Patented Claims – Magnum owns the land

Permitted mine
> All permits held to start mining immediately

Local government support
> County has issued Special Use Permit in a vote of support



Large & Strategic Land Holding



Large area of land facilitates mining

> Over 60 km² or 15,000 acres held

Mine area

> Held under patented mining claim

> Patented claims exist in perpetuity

> Gives ownership of land and all mineral rights

Exploration areas

> Held under unpatented claims, fee lands, BLM lands, and state sections

> The mineral rights are owned, not the land

Room to develop

> More than enough land is controlled to host mine, beneficiation plant, hot metal production facility, stockpiles, tailings storage, and waste dumps

Direct access

> State highway

> Transcontinental rail

> High voltage power

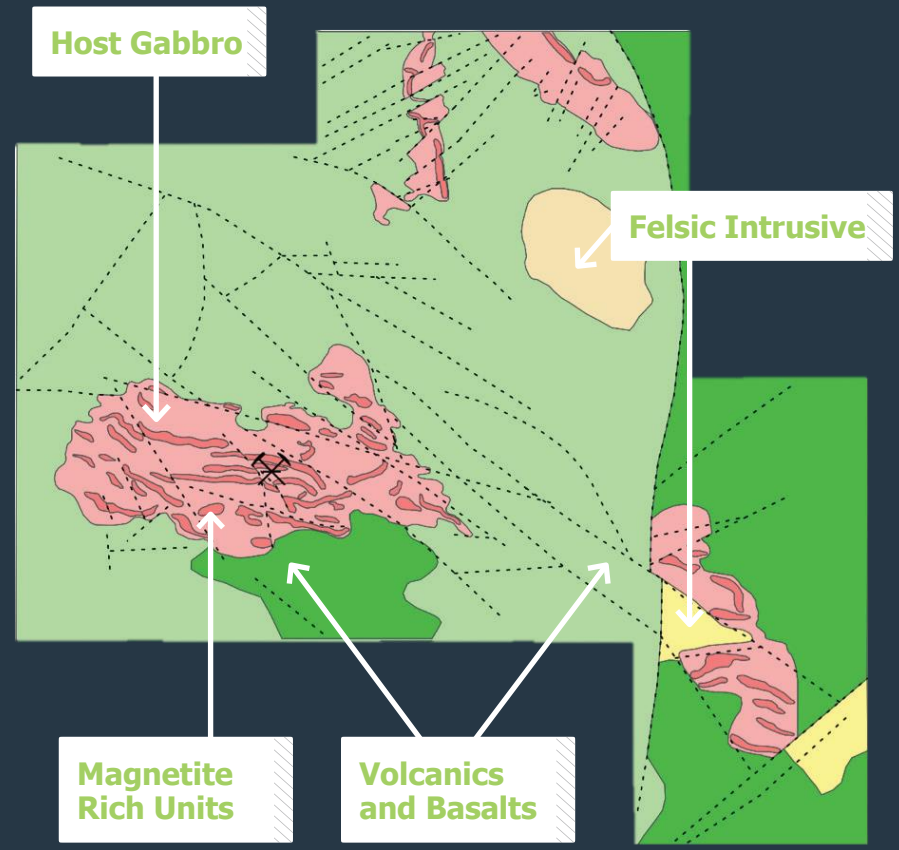
Geology: High Iron Grades in a sea of magnetite

Regional geology
The iron deposit occurs within a sequence of young (<34My) volcanics and gabbro intrusives

Structural control
Remobilisation of magnetite into faults and joints forms pods of high grade, massive magnetite assaying up to 69% Fe

Iron mineralisation
Magnetite is hosted by a gabbro lopolith that has undergone strong scapolite alteration. Ore occurs as large area of disseminated magnetite with zones of massive magnetite

Implications for benficiation
The scapolite alteration causes the gabbro to often have a “sugary” texture that has lower hardness than most bif or taconite hosted magnetite deposits



Large JORC Compliant Resource[1,2]

Extensive drill hole database
420 drill holes totalling 41km of drilling

Comprehensive assaying and iron recovery tests
21,000 assays, 6,400 Davis Tube Recovery tests to characterise metallurgical recoveries

Low strip ratio
Outcropping high grade magnetite means the Life of Line strip ratio is very low

Multiphase mining
Optimised pit schedule to provided blended ore to the plant

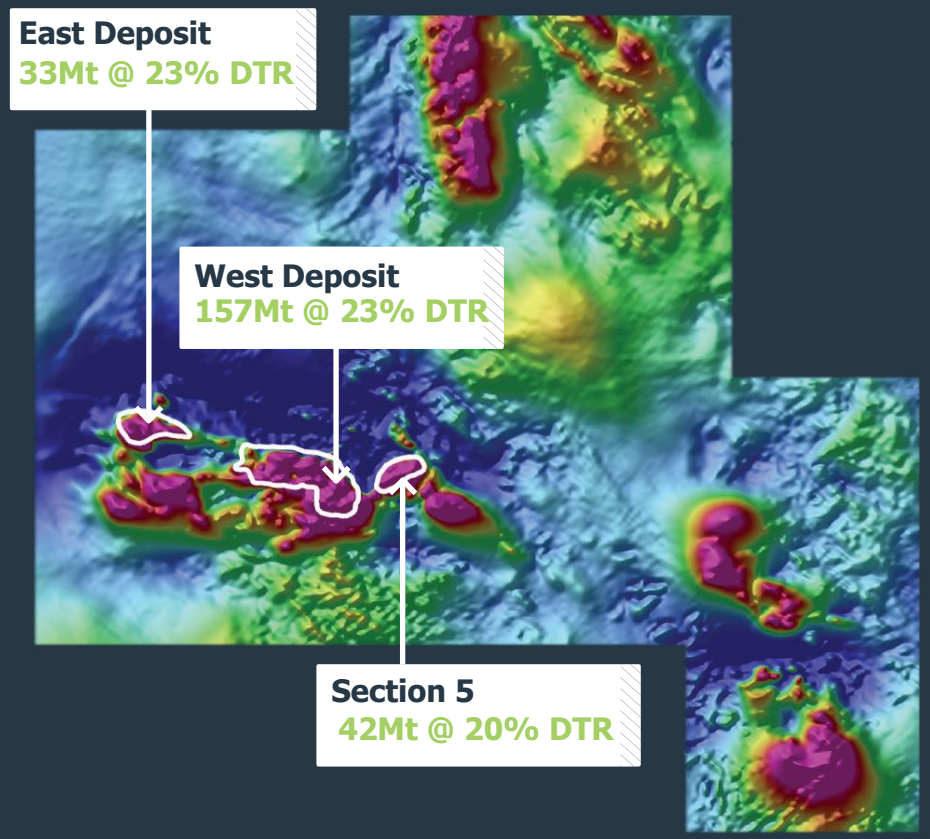
Easy access
Historic mine area with no environmental, archaeological, fauna and flora, or native lands issues

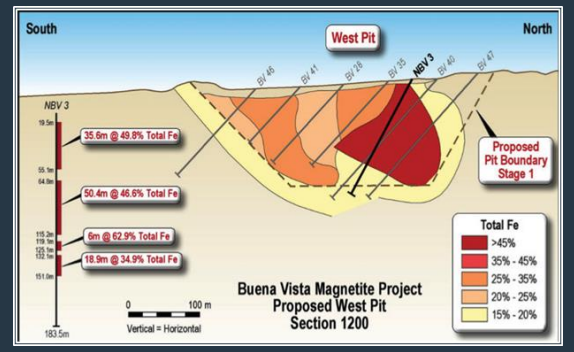
Deposit	Resource Category	Tonnes Million	Fe %	DTR%
Section 5	Indicated	34	17.4	21
	Inferred	8	16	18
	Subtotal	**42**	**17**	**20**
West	Indicated	117	19.5	23.9
	Inferred	40	17	21
	Subtotal	**157**	**19**	**23**
East	Indicated	-	-	-
	Inferred	33	19	23
	Subtotal	33	19	23
Combined	Indicated	151	19	23.2
	Inferred	81	18	22
	Total	**232**	**19**	**23**

Figures may be rounded for clarity

[1]ASX:MGU – 'Maiden JORC 2012 Resource for Buena Vista Magnetite Project', 23 March, 2021
[2]The Company confirms that it is not aware of any new information or data that materially affects the information included in this announcement and that all material assumptions and technical parameters underpinning the estimates in the announcement of the 'Maiden JORC Resources for the Buena Vista Magnetite Project' dated 23 March 2021 continue to apply and have not materially changed

Initial Mine Area: accelerated production





Thick magnetite units
Allows for bulk mining with no dilution

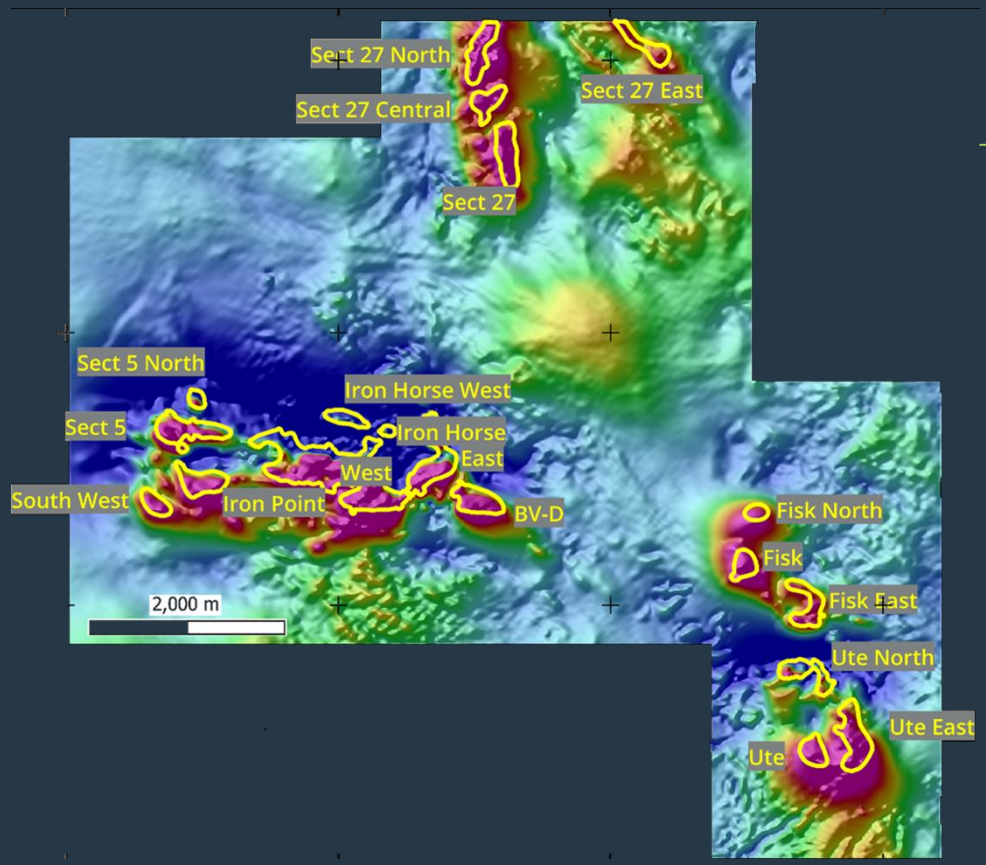
Ore daylights in Initial Mining Area
No prestrip required

Initial Mining Area consists of high grade ore
Grades of +60% Fe should allow fast CAPEX paydown

Life of Mine stripping ratio is very low
Early SR is 0.17, LOM SR is 0.39

Multiple Pits: optimal plant feed
ROM blending to enhance plant performance

Large Exploration Target estimated[1]



Aeromagnetic data

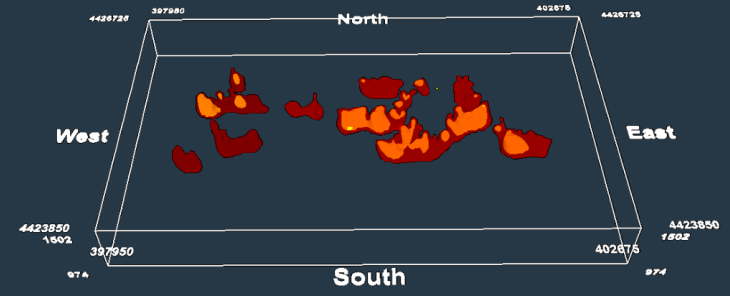
> Highlights areas of magnetite - red coloured areas with all known resources having that red signature

Magnetic modelling defines exploration targets

> 3D modelling via inversion defines volumes that are converted to tonnages when calibrated to the known resources

> **407m to 540Mt[1] @ 15% to 22% Fe** Exploration Target has been estimated on the mineral claims[1]

The potential quantity and grade of the Exploration Target is conceptual in nature, there has been insufficient exploration to estimate a Mineral Resource and it is uncertain if further exploration will result in the estimation of a Mineral Resource.



[1]ASX:MGU – 'Significant Exploration Target Defined', 13 January 2023

Beneficiation to DRI grade: a premium product[1]

Industry standard flowsheet derisks the project

> Simple flow sheet

> Using AG/SAG/Ball Mill and Vertimill grind to -40µm with wet magnetic separation

> 48% ore weight recovery, 93% iron recoveries achieved

> Update confirms 2011 beneficiation report[2]

Product

> Direct Reduction Iron (DRI) grades produced: 68.9% Fe, 1.7% Si + Al

> DRI is in high demand due to its lower emissions per unit of steel produced

> Product will attract substantial premium over blast furnace grades

Composite	%Fe	$\%SiO_2$	$\%Al_2O_3$	$\%TiO_2$	%V	%P	%CaO	%MgO	%S	%As	%Cu	%Pb	%Sn	LOI 1000
Average	68.9	2.16	0.68	0.21	0.27	0.003	0.75	0.63	0.003	0.001	0.003	0.001	0.001	-3.1

Table: beneficiation report from 2011

1 'Physical and Magnetic Characterisation conducted on A Number of Iron Ore Core Samples', AMMTEC Rpt A12873, February, 2011
2 ASX:MGU 'Test Work Confirms +68% Fe High Grade Iron Ore', 10 March, 2023

Critical Path
18 Months to Production

- Modeling, testing and engineering to finalise a 800ktpa plant
- Contract completed with Samuel Engineering for Preliminary Design and Capex Estimate
- Drill and blast fresh high grade ore for met testing and process flow sheet verification
- Procure & Build Mills, Mag Sep, Diesel Generators
- Design and Construct Railroad Siding
- **Design & Build Port Loadout Infrastructure**
- **MOU signed with Mitsubishi for off-take, to be ratified[1]**
- **New York based EAS Advisors appointed to advance financing strategy[2]**

[1]ASX:MGU 'Mitsubishi enters into an offtake MOU with Magnum', 10 May 2023
[2]ASX:MGU 'Magnum appoints EAS", 10 June, 2023

Infrastructure Rich Location

Rail

- Colado Rail Siding Site is 42km from the mine
- Huxley Rail Siding is 69km from the mine
- Large area available for loadout stockpiles at both sites

Port

Mine is connected by rail to Sacramento, Richmond, San Francisco and Vancouver Ports

Power

- Nevada is a renewable energy powerhouse

  53GW of solar and other renewable energy projects have been approved
- 11GW due for completion by 2025. High voltage power lines are within 40km of the mine site

Water

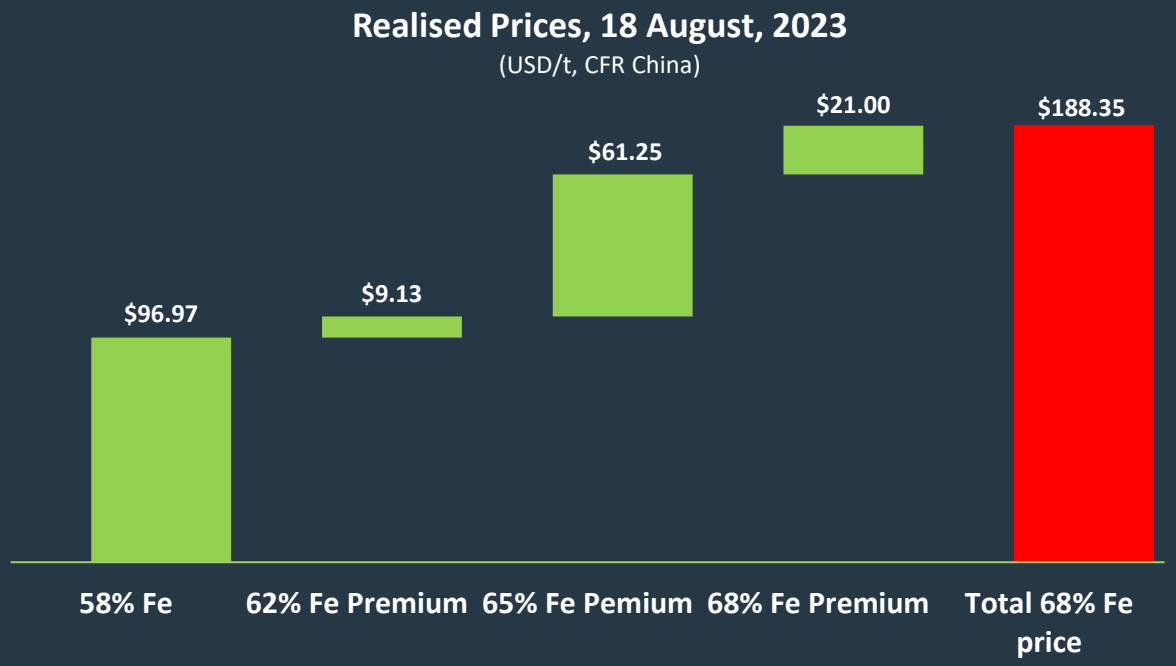
Permits are in place and water sources secured

FAST TRACK[1,2] to 800,000 tpy of +68% Fe concentrate in 18 months

[1]ASX:MGU – ‘Acceleration of Buena Vista Project Production’, 14 July 2023
[2]ASX:MGU – ‘Buena Vista Technical Feasibility Refresh Completed’, 21 August 2023

In demand DRI grades:

Increasing demand drives pricing premium [1,2]



Demand for DRI grade (+68% Fe) feeds is increasing

> Driven by demand for lower emissions Pig Iron[1]

> Global Energy Transition to lower emissions is likely to see this demand trend continue[2]

> DRI grade feeds seen as close follower of graphite, lithium and cobalt in demand metals

[1]https://news.metal.com, accessed 21 August, 2023
[2] https://www.agora-energiewende.de/en/', accessed 21 August 2023

Fast track production option:

0.8Mtpa DRI Grade Concentrate[1,2]

Estimated CAPEX	**US$160M**
Estimated OPEX for DRI concentrate, ex works	**US$67/t**
Estimated rail, port costs	**US$33/t**
Estimated OPEX, FOB port	**US$100/t**
Estimated Pretax Payback Period	**3 years**
Product quality (Fe%)	**+68%**

Accessing the highest grade of the resource

> Deliver more product per tonne of ore mined

> Comes with a low strip ratio of <0.2

> Does not sterilise the resource

> Drives fast payback and reduces risks

> Fully permitted

[1]ASX:MGU – 'Acceleration of Buena Vista Project Production', 14 July 2023
[2]ASX:MGU – 'Buena Vista Technical Feasibility Refresh Completed', 21 August 2023

Expansion Option: 1.6Mtpa[1]

Estimated CAPEX	**US$280M**
Estimated OPEX for DRI concentrate, ex works	**US$67/t**
Estimated rail, port costs	**US$33/t**
Estimated OPEX, fob port	**US$100/t**
Estimated Pretax $NPV_{10\%}$	**US$554M**
Estimated Pretax IRR	**40%**
Estimated Pretax Payback Period	**4 years**
Product quality (Fe%)	**+68%**
Sales price - base 62% Fe	**US$100/t**
Sales price with premium, 68% Fe DRI	**US$159/t**

Supported by current resource

> 25 year mine life on current resource, 50 years on projected resource

> Economies of scale kick in

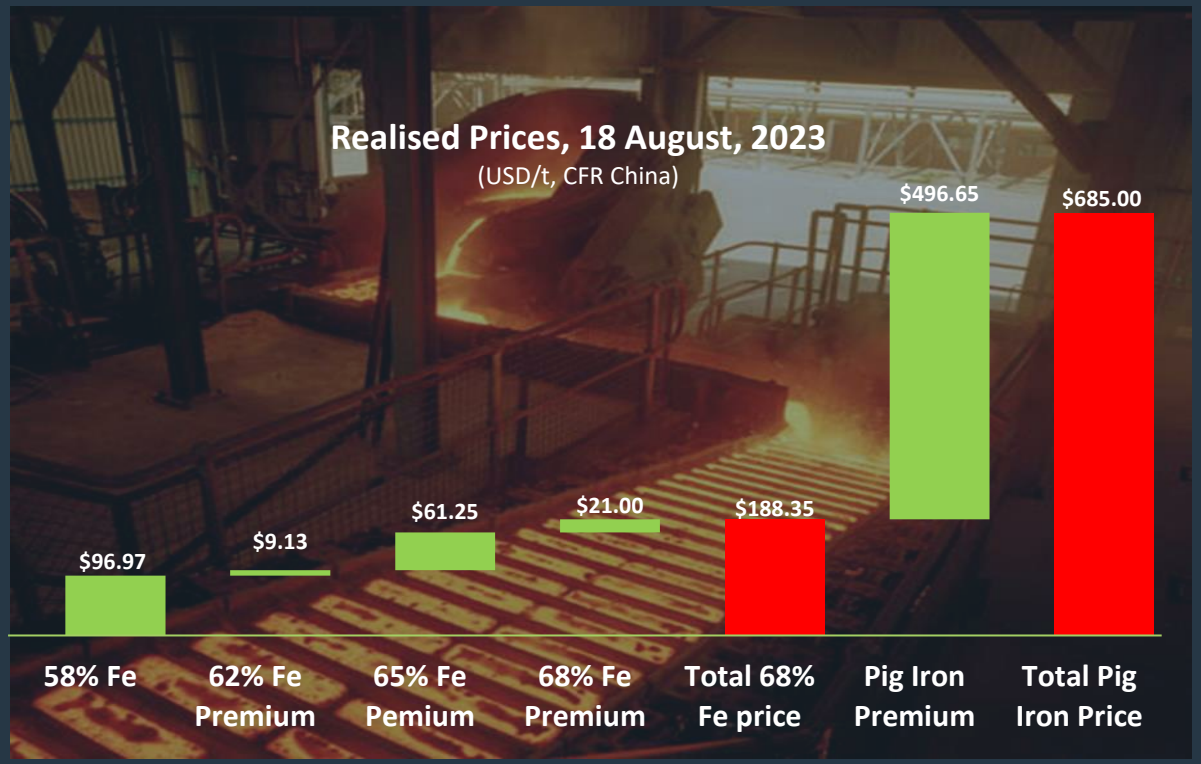
> No reduction in product quality

> Land, power, water supports this production level

> Fully permited

[1]ASX:MGU – 'Positive Scoping Study Validates Buena Vista Iron Project', 14 August 2023

Green Pig iron: 0.9Mtpa



Hismelt: Towards Green Steel

> Industry disrupting HIsmelt technology

> Using sustainable biomass as the reductant - no waiting for hydrogen reduction to catch up

> Produces exceptionally clean pig iron

> All contaminants report to slag

> Source of co-generated green power

Order of Magnitude shows its an attractive business

> MinRizon commissioned to undertake CAPEX and OPEX estimates

> Biochar facility to provide renewable carbon reductant

> Positive economic indicators boosted by Green Pig Iron premium[1]

Proposed Buena Vista Production is ideal

Vertical integration of the Buena Vista business brings huge savings in logistics costs

[1] Argus Scrap Markets, Issue 23-163, 18 August, 2023

Move to Green Pig iron production: 0.9Mtpa

Estimated CAPEX: HIsmelt	**US$550M**
Estimated OPEX to PI	**US$410/t**
Estimated Pretax $NPV_{10\%}$	**US$926M**
Estimated Pretax IRR	**27%**
Estimated Pretax Payback Period	**3 years**
Product quality (Fe%, C%)	**96%, 4%**
Sales price - base	**US$500/t**
Sales price with premium for Green Pig Iron	**US630/t**

Towards Green Steel

> Industry disrupting HIsmelt technology

> Using substainable biomass as the reductant – no waiting for hydrogen reduction to catch up

> Produces exceptionally clean pig iron

> All contaminants report to slag

> Source of co-generated green power

Strategy: Low cost start to underpin long term business

MAGNUM MINING AND EXPLORATION LIMITED

Low cost initial production

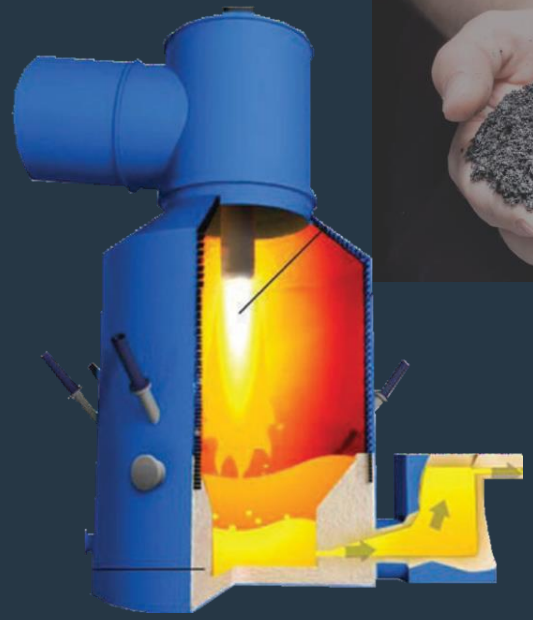
> 0.8Mtpa production of DRI grade concentrate
> 5 year schedule being prepared
> Use of existing redundant equipment in the industry to limit costs

Transition to 1.6Mtpa production

> Expand operations to capture economies of scale

Pursue downstream processing

> Install Hismelt facility to produce pig iron
> Use biochar to make production zero emission and a net green power producer

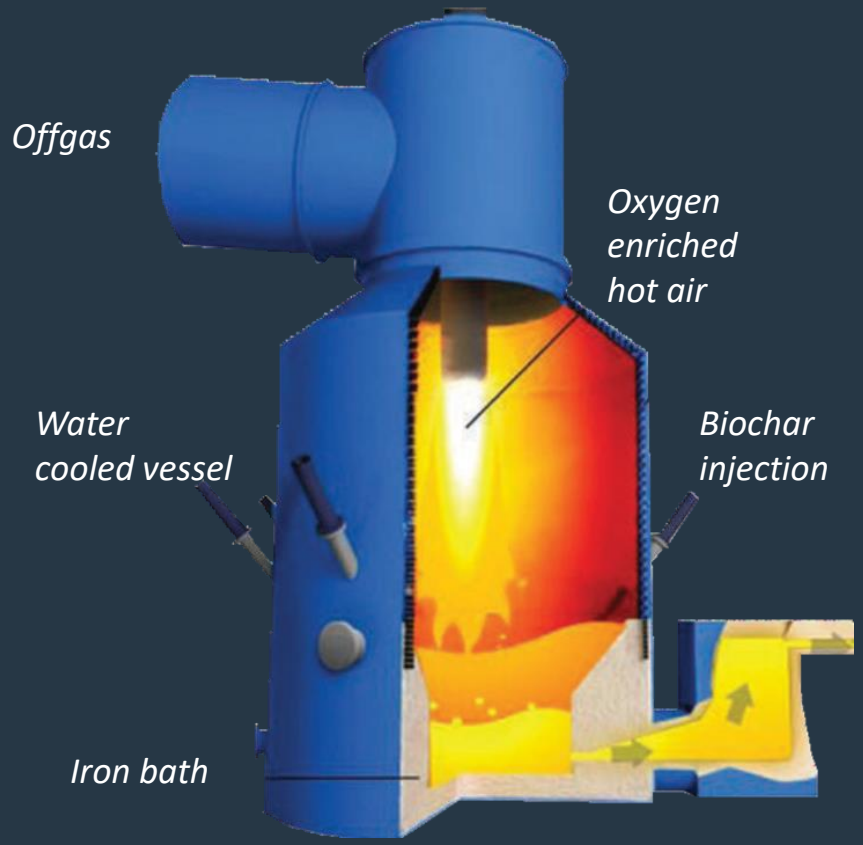


APPALACHIAN IRON

A green iron solution for a warming planet

MAGNUM MINING AND EXPLORATION LIMITED

Appalachian Iron: Proven Carbon Neutral Pig Iron



Hismelt: Green Steel Now

> HIsmelt is a technical disruptor of blast furnaces to produce pig iron

> HIsmelt directly smelts iron ores and is contaminant element tolerant

> Using renewable biochar as the reductant makes HIsmelt a source of green pig iron – the only proven and operating green process available now

Technology Disruptor bypasses the need for pellets and coke

> Iron fines, reductants and fluxes are injected into a molten iron bath

> Reaction gases CO and H_2 are combusted with oxygen from hot blast, generating heat

> Heat provides energy for sustaining reduction reactions and direct smelting of iron feeds

Technology is Energy Efficient

> Cogenerated green power is an output of the process

Appalachian Iron: World leading technology in West Virginia

MOLONG HISMELT PLANT

Agreements in place

> Agreement with Molong Petroleum Machinery Co for the building and operating of a HIsmelt plant[1]

> Site in West Virginia identified

> Secured non-binding agreements for land access, pig iron offtake, raw materials supplies, HIsmelt technology, and engineering

> Using steel mill dust & scrap

Strong political support

> US Senator Manchin, senator for West Virginia, has sponsored a Congressionally Directed Spending Request to the Senate Appropriations Committee in support of the project[2]

[1]ASX:MGU – 'Magnum secures pathway to Hismelt license', 218 May, 2023
[2]ASX:MGU – 'US Senator seeks appropriation re Appalachian iron project', 17 May, 2023

Disclaimers

COMPETENT PERSON'S STATEMENT – RESOURCE ESTIMATION

The information in this report that relates to Mineral Resources is based on information compiled by Mr Jonathon Abbott, a Competent Person who is a Member of the Australian Institute of Geoscientists and a full time employee of MPR Geological Consultants Pty Ltd. Mr Abbott has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 edition of the "Australasian Code for Reporting Exploration Results, Mineral Resources and Ore Reserves". Mr Abbott consents to the inclusion of the matters outlined in this announcement in the form and context in which it appears.

COMPETENT PERSON'S STATEMENT – RESOURCE ESTIMATION

The information in this report that relates to Mineral Resources is based on information compiled by Mr Jonathon Abbott, a Competent Person who is a Member of the Australian Institute of Geoscientists and a full time employee of MPR Geological Consultants Pty Ltd. Mr Abbott has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 edition of the "Australasian Code for Reporting Exploration Results, Mineral Resources and Ore Reserves". Mr Abbott consents to the inclusion of the matters outlined in this announcement in the form and context in which it appears.

COMPETENT PERSON'S STATEMENT – EXPLORATION TARGET ESTIMATION

The information in this report that relates to an Exploration Target is based on information compiled by Mr Marcus Flis, a Competent Person who is a Fellow of the Australasian Institute of Mining and Metallurgy and a full time employee of Rountree Pty Ltd. Mr Flis has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 edition of the "Australasian Code for Reporting Exploration Results, Mineral Resources and Ore Reserves". Mr Flis consents to the inclusion of the matters outlined in Appendix A in the form and context in which it appears.

The Company confirms that the form and context in which the Competent Persons' findings are presented have not been materially modified.

NO NEW INFORMATION

The Company confirms that it is not aware of any new information or data that materially affects the information included in this announcement and that all material assumptions and technical parameters underpinning the estimates in the announcement of the 'Maiden JORC Resources for the Buena Vista Magnetite Project' dated 23 March 2021 continue to apply and have not materially changed.

PRODUCT PRICING

Pricing assumptions are based on current and forecast economic conditions and may change as the proposed Project m

FORWARD LOOKING STATEMENTS

This release contains "forward-looking information" that is based on the Company's expectations, estimates and projections as of the date on which the statements were made. This forward-looking information includes, among other things, statements with respect to studies, the Company's business strategy, plan, development, objectives, performance, outlook, growth, cash flow, projections, targets and expectations. Generally, this forward-looking information can be identified by the use of forward-looking terminology such as 'outlook', 'anticipate', 'project', 'target', 'likely',' believe', 'estimate', 'expect', 'intend', 'may', 'would', 'could', 'should', 'scheduled', 'will', 'plan', 'forecast', 'evolve' and similar expressions. Persons reading this news release are cautioned that such statements are only predictions, and that the Company's actual future results or performance may be materially different. Forward-looking information is subject to known and unknown risks, uncertainties and other factors that may cause the Company's actual results, level of activity, performance or achievements to be materially different from those expressed or implied by such forward-looking information.

Forward-looking information is developed based on assumptions about such risks, uncertainties and other factors set out herein, including but not limited to general business, economic, competitive, political and social uncertainties; the actual results of current development activities; conclusions of economic evaluations; changes in project parameters; future prices of metals; failure of plant, equipment or processes to operate as anticipated; accident, labour disputes and other risks of the mining industry; and delays in obtaining governmental approvals or financing or in the completion of development or construction activities. This list is not exhaustive of the factors that may affect our forward-looking information. These and other factors should be considered carefully, and readers should not place undue reliance on such forward-looking information.

Neither the Company, nor any other person, gives any representation, warranty, assurance or guarantee that the occurrence of the events expressed or implied in any forward-looking statement will actually occur. Except as required by law, and only to the extent so required, none of the Company, its subsidiaries or its or their directors, officers, employees, advisors or agents or any other person shall in any way be liable to any person or body for any loss, claim, demand, damages, costs or expenses of whatever nature arising in any way out of, or in connection with, the information contained in this document. The Company disclaims any intent or obligations to or revise any forward-looking statements whether as a result of new information, estimates, or options, future events or results or otherwise, unless required to do so by law.

USA Disclaimer

This report is provided for informational purposes only and for no other purpose. By reviewing or reading this report, you will be deemed to have agreed to the obligations and restrictions set out below.

The distribution of this report in certain jurisdictions may be restricted by law and therefore persons into whose possession this report comes should inform themselves about and observe such restrictions. In particular, neither this report nor any copy of it nor any information contained in it may be taken or transmitted into the United States, except in compliance with applicable securities laws.

It is a condition of your receiving this report that you fall within, and you warrant and undertake to the Company that you are either an “accredited investor” (as defined in Rule 501 of the U.S. Securities Act of 1933, as amended (the “Securities Act”)) or you are located outside of the United States (as defined in Regulation S promulgated under the Securities Act (“Regulation S”)).

Any failure to comply with this restriction may constitute a violation of United States securities laws. No action has been or will be taken by the Company that would permit a public offer of its securities in any jurisdiction in which action for that purpose is required. No offers of securities or distribution of this report may be made in or from any jurisdiction except in circumstances which will not impose any obligation on the Company or any of its advisers to take action.

This report and any oral statements made in connection with this report do not constitute an offer to sell, or a solicitation of an offer to buy, or a recommendation to purchase, any securities in any jurisdiction, nor shall there by any sale, issuance or transfer of any securities in any jurisdiction where, or to any person to whom, such offer, solicitation or sale may be unlawful under the laws of such jurisdiction. This report does not constitute either advice or a recommendation regarding any securities.

This report is being furnished solely in reliance on applicable exemptions from the registration requirements under the Securities Act. The securities of the Company have not and will not be registered under the Securities Act or any state securities laws, and may not be offered or sold within the United States unless an exemption from the registration requirements of the Securities Act is available. Accordingly, any offer or sale of securities in the Company will only be offered or sold (i) within the United States only to institutional accredited investors (as defined in Rule 501 (a)(1),(2),(3) or (7) of the Securities Act) in private placement transactions not involving a public offering and (ii) outside the United States in offshore transactions in accordance with Regulation S. Securities of the Company may not be resold unless the offer and sale is registered under the Securities Act or an exemption from registration is available. Neither the U.S. Securities and Exchange Commission nor any state or foreign regulatory authority has approved the securities of the Company to be offered or the terms of such offering or passed upon the accuracy or adequacy of this report. Any representation to the contrary is a criminal offence.

CONFIDENTIAL AND FOR INTERNAL USE ONLY

Contact:

Neil Goodman, CEO
neil@mmel.com.au

Athan Lekkas, Director
athan@mmel.com.au

Level 11, 52 Phillip Street,
Sydney NSW 2000

Telephone: +61 8 6280 0245
Fax: +61 8 9381 2855
Email: info@mmel.com.au

www.mmel.com.au

MAGNUM
MINING AND EXPLORATION LIMITED