



ASX & MEDIA RELEASE

Zenith
Minerals
Limited

ABN 96 119 397 938

October 29th, 2013
Australian Securities Exchange Limited
Via Electronic Lodgement

ASX CODE: ZNC

Activities

Exploration/Development
Mt Alexander Magnetite Iron
Earaheedy Manganese

Details as at March 2013

Issued Shares	95.0 m
Unlisted options	0.3 m
Mkt. Cap. (\$0.15)	A\$ 16.5m
Cash June 2013	A\$ 1.4m
Debt	Nil

Directors

Mike Joyce	Chairman
Stan Macdonald	Non Exec Director
Julian Goldsworthy	Non Exec Director

Major Shareholders

HSBC Custod. Nom.	13.6 %
Giralia (Atlas Iron)	10.8%
Tilbrook/Grey Willow	3.9%
Nada Granich	3.9%
Yandal Inv. PL	3.4%

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Zenith acquires key tenement adjoining Mt Alexander

- Zenith to acquire a 100% interest in the Mount Alexander North tenement
- Directly adjoins Zenith's 100% owned 535 million tonne JORC magnetite resource
- Potential for additional discovery and resource growth through exploration of untested magnetic anomalies
- Strategic acquisition provides additional land for mine "footprint"

Zenith Minerals Limited ("Zenith") is pleased to announce that it has entered into a binding agreement to purchase a key tenement at Mount Alexander North from Northern Manganese Limited ("ASX-NTM").

The tenement (E08/1987 of 88km²) directly adjoins Zenith's 100% owned Mount Alexander magnetite iron ore project and increases the project area to 330 km² (figure 2). On Zenith's wholly owned Mount Alexander tenements immediately south, a JORC inferred resource of **535 million tonnes @ 30% Fe** has been defined, along with an additional Exploration Target of **570 to 680 million tonnes @ 25 to 35% Fe** (excluding the Inferred Resource).

Zenith's Mount Alexander magnetite project is near the port of Onslow, 260 km south west of Karratha in the West Pilbara region of WA (Figure 1). The North West Coastal Highway is 10 km west of the project and the Dampier Bunbury gas pipeline passes to the west of the highway.

Zenith will acquire 100% interest in E08/1987 by issuing 0.5 million ZNC shares (escrowed for 12 months) and payment of \$50,000 cash to Northern Manganese Limited.

Zenith Chairman Mike Joyce commented;

"This is a key strategic tenement acquisition for the Company. The new tenement provides us with important relatively flat land close to the northern edge of the steep iron formation range that marks the Mount Alexander JORC resource that will be critical for mine layout, along with providing access points for resource drilling and new resource growth targets."

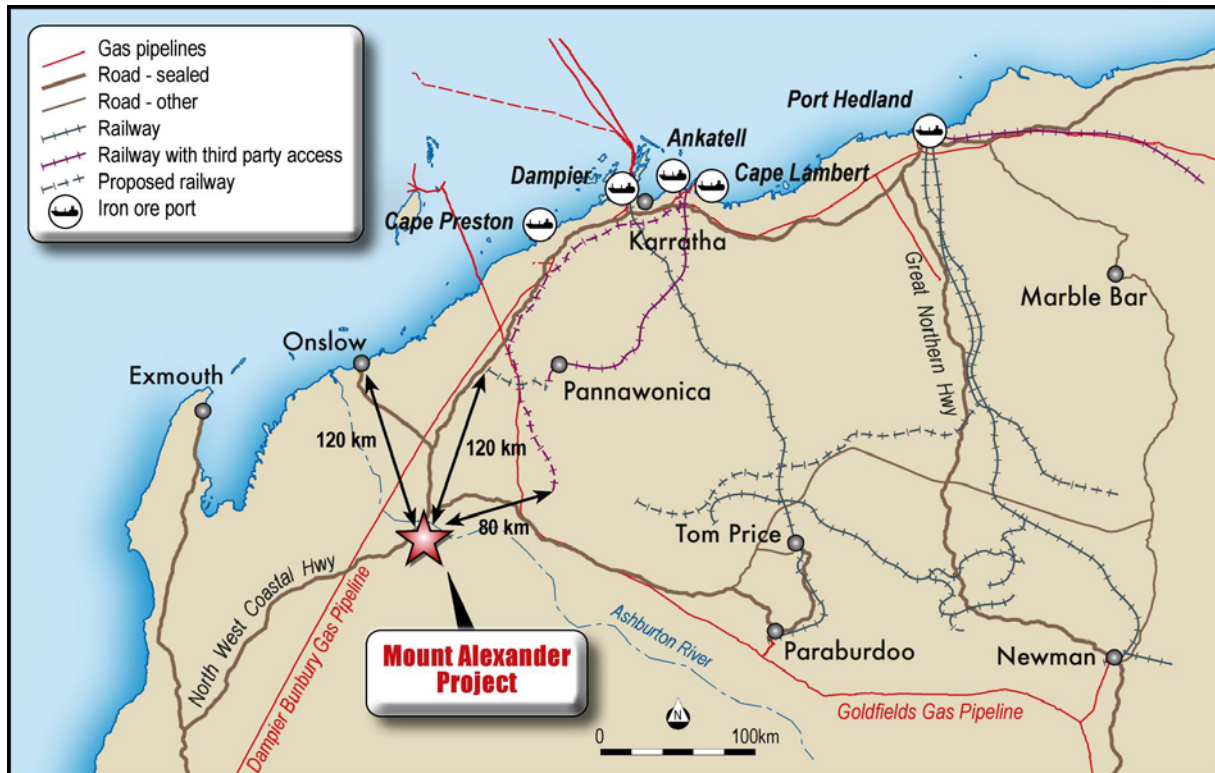


Figure 1: Mount Alexander Project Location and Infrastructure

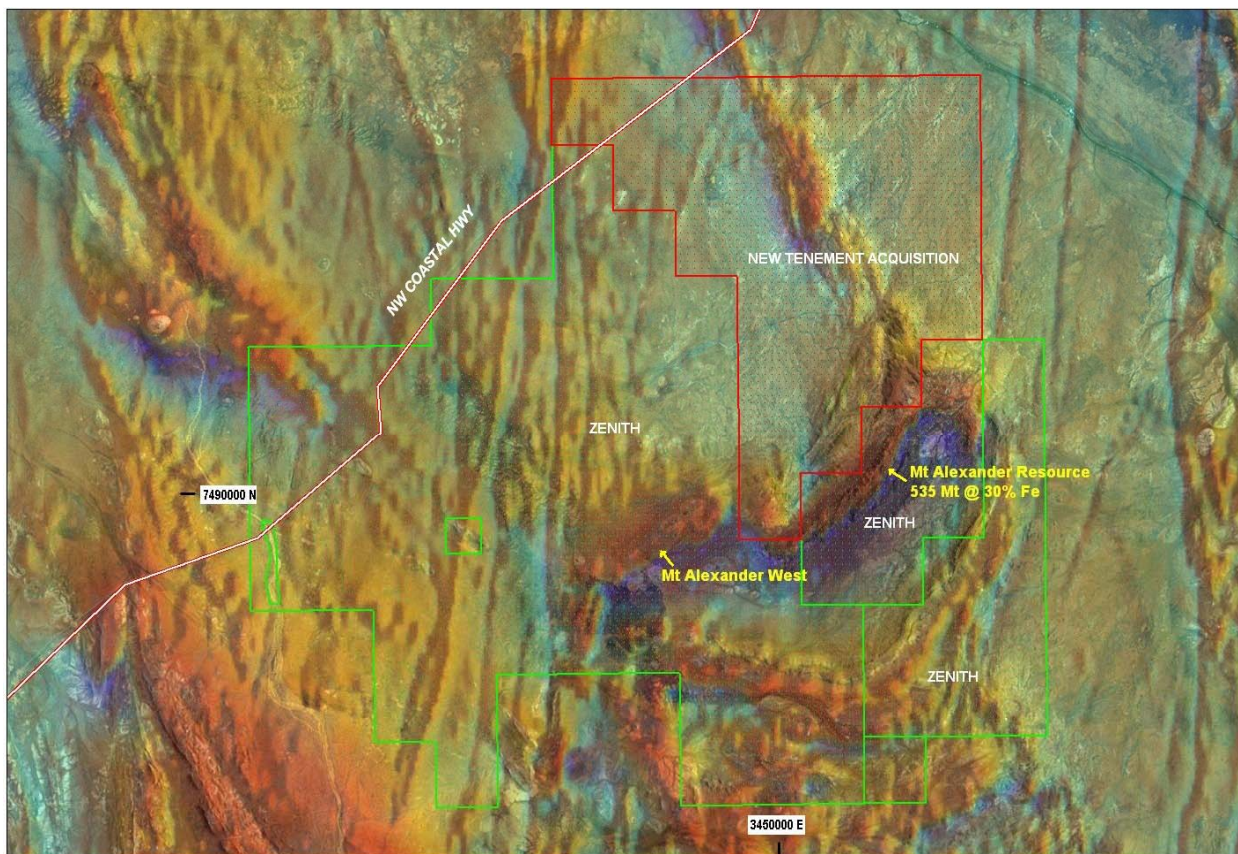


Figure 2: Mount Alexander Project tenements on aeromagnetic image draped on Landsat



About Mount Alexander (Zenith Minerals 100%)

The Mount Alexander Project 120 km from the port of Onslow, and 260 km south west of Karratha in the West Pilbara region of Western Australia. The proximity of the project to the Pilbara coast, and local infrastructure including the sealed North West Coastal Highway (10 km west of the project) and the Dampier Bunbury gas pipeline (35 km west) provides significant advantages for the project. Planned rail from the nearby West Pilbara Iron Project (Aquila/AMCI JV) to a proposed new deepwater port development at Anketell Point provides a possible alternative infrastructure solution.

In May 2013 the Company announced a significant upgrade to the magnetite resource at Mount Alexander. The new Inferred Resource now stands at **535 million tonnes @ 30.0% Fe**.

Mount Alexander BIF Mineral Resource estimate as at May 2013							
		Head Grade					
Classification	Tonnes (Mt)	Fe %	SiO₂ %	Al₂O₃ %	LOI %	P %	S %
Inferred	535.1	30.0	48.0	2.2	-0.4	0.1	0.46
	DTR	DTR Concentrate Grade					
	Mass Recovery %	Fe %	SiO₂ %	Al₂O₃ %	LOI %	P %	S %
	24.6	69.9	2.4	0.1	-2.7	0.01	1.1

Substantial additional potential exists for increased tonnage with only ~50% of target BIF drill tested to date. The Company has released an **additional Exploration Target of 570 to 680 million tonnes @ 25 to 35% Fe** (excluding the Inferred Resource).

**The potential quantity and grade of this Exploration Target is conceptual in nature. 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.*

An independent Scoping Study was completed on Mount Alexander by consultants ProMet and reported to ASX on 10 May 2011. The Scoping Study assessed the basic mining, processing and infrastructure requirements, and estimated Capital Costs and Operating Costs,. Based on detailed test work on diamond drill core the Study applied a weight recovery of 30.2% at p80 minus 40 micron grind and a DTR concentrate grade of 69.9% Fe and 3.0% SiO₂. The Base Case selected for the Scoping Study included processing by crushing, grinding, wet magnetic separation, with production of notional 8mtpa of magnetite concentrate over a life of +20 years.

The Base Case transport option for the concentrate was by slurry pipeline 120 km to the coast near Onslow, and transport by barge to an offshore mooring for transfer into ships for export (transhipment).

** The Scoping Study referred to in this report is based on low-level technical and economic assessments, and is insufficient to support estimation of Ore Reserves or to provide assurance of an economic development case at this stage, or to provide certainty that the conclusions of the Scoping Study will be realised.*

Work on elements of a pre-feasibility study for the project have been undertaken aimed at de-risking the project. Zenith's environmental consultants have finalised Level 1 and Level 2 flora & flora surveys which did not identify any major environmental triggers at the site, and work is underway that is aimed at securing access to a project water supply. Investigation of export infrastructure options has included briefings by two Australian operators on their bulk material transhipment technology.

The information in this report that relates to Exploration Results is based on information compiled by R M Joyce, who is a Member of the AusIMM. Mr Joyce 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 2004 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Joyce 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 in-situ Mineral Resources is based on information compiled by Grant Louw of CSA Global. Grant Louw takes overall responsibility for the Report. He is a Member of the Australian Institute of Geoscientists and has sufficient experience, which is relevant to the style of mineralisation and type of deposit under consideration, and to the activity he is undertaking, to qualify as a Competent Person in terms of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code 2012 Edition). Grant Louw consents to the inclusion of such information in this Report in the form and context in which it appears.