

Quarterly Report

Period ended 31 March 2021



Minotaur Exploration Limited | ACN 108 483 601 | ASX: MEP
minotaurexploration.com.au

CORPORATE

Minotaur held cash of \$6.57 million at the end of the March Quarter, during which exploration expenditure was A\$0.52 million plus Minotaur's joint venture contribution to the Great While kaolin project of \$0.37m.

The Company is assiduously evaluating new copper opportunities around Australia, within an increasingly competitive environment as the copper price touched its historic high point (US\$4.63 per lb or US\$10,180 per tonne in 2011). Informed commentators posit that a long-term bull market for copper (and other related elements) is forming, driven by the global demand for energy efficiencies. Minotaur is well placed to participate in that movement through discovery exposure and resource development potential. The Company invites holders of tenements with an exploration history to make contact.



Figure: Historic Copper Pricing in USD per lb
Source: <https://www.macrotrends.net/1476/copper-prices-historical-chart-data>

EXPLORATION - Queensland

Brenea Plains JV (SFR 100%: OZL/MEP to earn up to 75%)

Ground EM surveying will resume late April within the Brenea Plains JV, to locate copper targets under cover.

Eloise JV (OZL 70%: MEP 30%)

A ground EM geophysical survey is arranged for two areas within the Eloise JV to locate copper targets under cover, continuing the strategy that led to discovery of the Jericho system. Surveying will commence in the June Quarter after a similar survey is completed on the adjacent Brenea Plains JV.

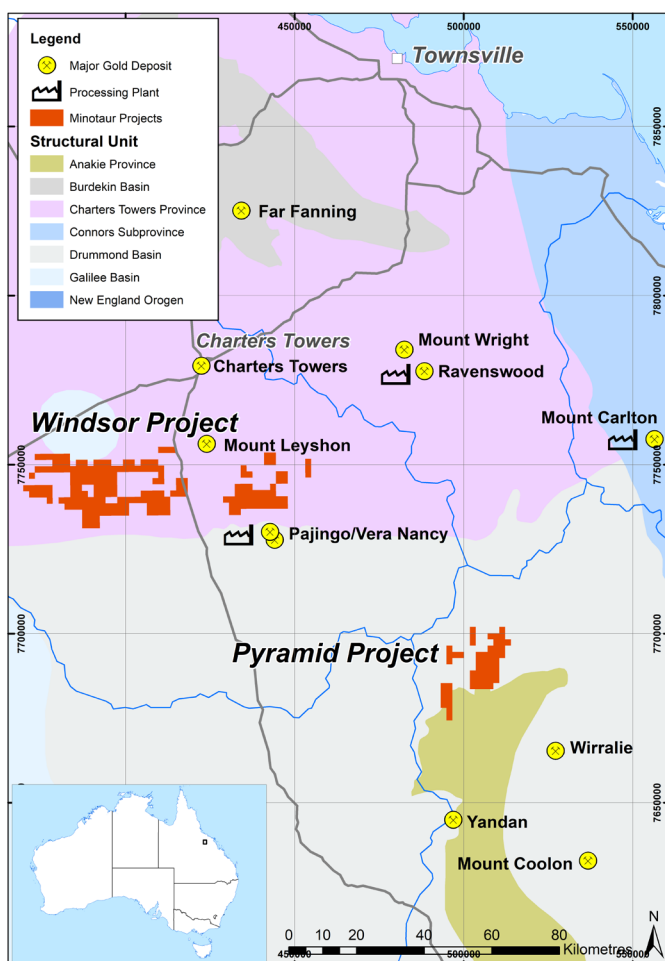


Figure 1: Location of Pyramid Project, Queensland

Pyramid Gold Project (MEP 100%)

The Pyramid tenement group is located 180km south of Townsville (Figure 1). The project, covering 150km² embraces two main areas prospective for gold, being the West Pyramid Range and East Pyramid Range (Figure 2).

Minotaur's inaugural 12-hole RC drill program for 1416m (Figure 3) located numerous high-grade gold zones between 31-116m below surface, within a 500m long previously defined gold trend named Gettysberg.

Drill assays¹ demonstrate good continuity within the gold envelope, the best intercepts being:

- o 33m @ 1.74g/t Au, including 6m @ 4.19 g/t Au from 31m (GB21D02)
- o 67m @ 0.61g/t Au, including 8m @ 2.15g/t Au from 56m (GB21D04)
- o 114m @ 0.57g/t Au, including 6m @ 2.06g/t Au from 29m (GB21D09)
- o 56m @ 0.62g/t Au, including 9m @ 1.05g/t Au from 107m (GB21D012)

1 Minotaur report to ASX dated 29 April 2021 *Gettysberg delivers encouraging assays at Pyramid gold project*

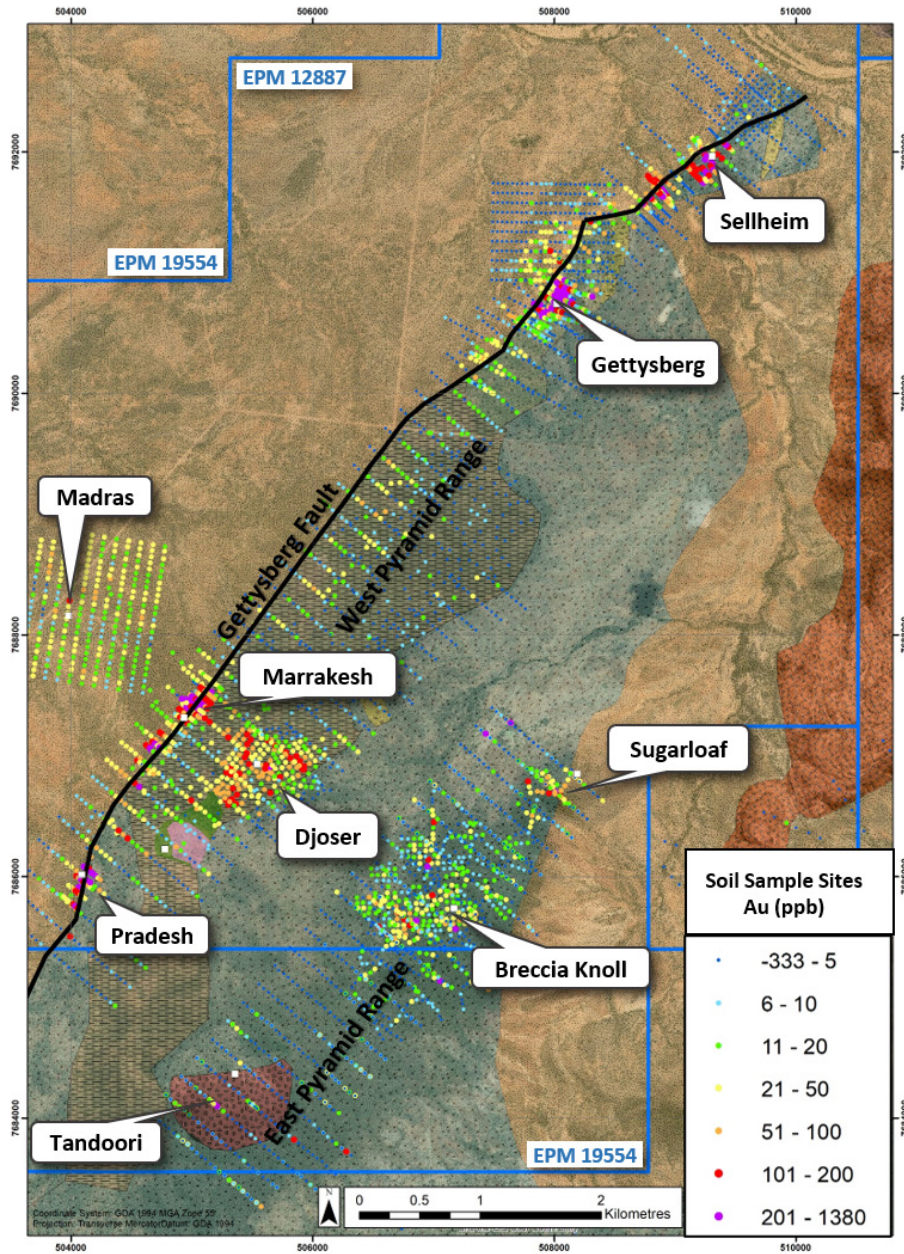


Figure 2: West Pyramid and East Pyramid Ranges gold-in-soil anomalies and main prospect locations

Minotaur is encouraged by the broad gold distribution and will shortly place diamond cored holes, from which valuable structural data can be obtained. That will lead to refinement of the geological model to guide further drilling.

An IP geophysical survey along the Gettysberg Fault corridor is arranged, the contractor being delayed until mid-May by the significant April rain event along the east coast. The IP survey will seek to identify sulphide enhanced zones potentially representative of gold mineralisation along a +2km zone covering Marrakesh to Pradesh prospects (Figure 2.)

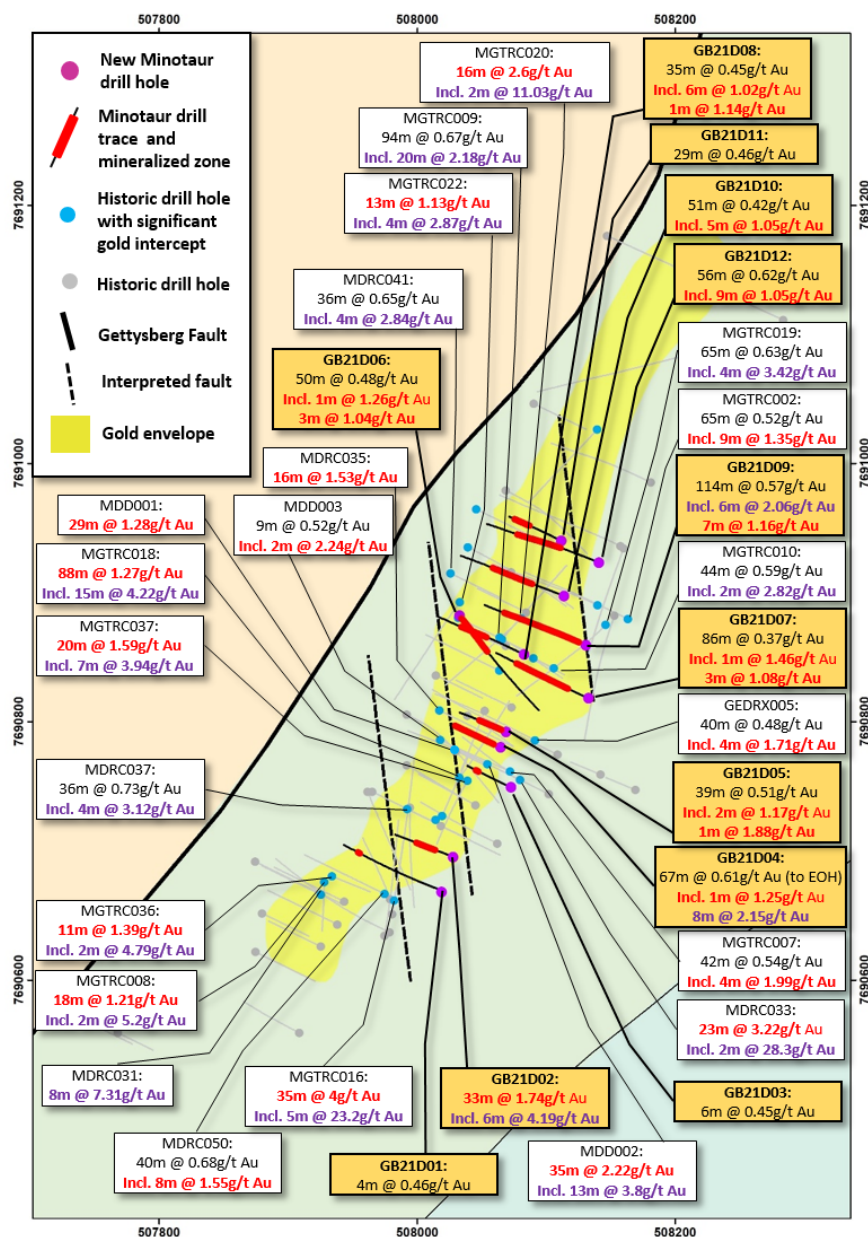


Figure 3: Gettysberg prospect showing the main zone of gold mineralisation and historic drill holes. Minotaur's drill traces superimposed and main intercepts labelled in orange boxes

Windsor Project (MEP 100%)

Royale and Orewin base metal VMS prospects warrant further investigation, to build both areas into drill targets over the coming months. More surface geochemical sampling will better define the extent of the surface anomaly at Orewin and both prospects will benefit from electrical geophysics cover to define areas for drill testing. The Royale anomaly, identified from airborne VTEM capture, is suited to ground EM. Orewin is suited to IP geophysics. Geochem sampling is planned for late in the June Quarter while geophysical surveying would likely occur in the September Quarter.

EXPLORATION, South Australia

Peake and Denison Project (MEP 100%)

Arrangements to permit a drilling program at the Peake and Denison project are in train. A Program for Environment Protection and Rehabilitation (PEPR) has been submitted for approval by Department of Mining and Energy. Native Title (NT) surveys of proposed drill sites will be conducted. Half of the drilling expense will be recouped under the Accelerated Discovery Initiative, from a \$230,000 funding grant awarded to Minotaur.

Drilling is scheduled for June - July; Minotaur will provide an update once the PEPR is approved, NT surveys are complete and drill targets are finalised.

Great White Kaolin-Halloysite Project (ADN 75%; MEP 25%)

Minotaur and Andromeda Metals (ASX: ADN) are collaborating within the Great White Kaolin JV, for which Andromeda forecasts finalisation of a definitive feasibility study (DFS) by the end of June 2021. Minotaur is contributing its 25% share of DFS expenses.

Andromeda lodged a Mining Lease Proposal with the Regulator on 25 February 2021 and is steadily advancing DFS level engineering and infrastructure designs and process flow sheets. Product sales marketing activity by consultant Conrad Partners continues through Asia. For a comprehensive report go to andromet.com.au/reports.

Halloysite R&D (50/50 MEP/ADN)

Natural Nanotech Pty Ltd (NNT) is a research and commercialisation venture, jointly owned (50:50) by Minotaur and Andromeda. Success in developing new technology applications for halloysite nanoparticles is expected to create new user markets for the halloysite fraction of the JV's high-grade kaolin deposits in South Australia. Potential applications include: carbon capture; hydrogen storage and transport; remediation of water and wastewater; energy storage technologies, and; antibacterial and agricultural applications.

The special properties of Great White halloysite-derived nanomaterials are their enormous surface area per unit weight, their porous nature and differential charge capabilities between inner and outer surfaces.

Natural Nanotech's research is being directed through the University of Newcastle's GICAN² team whose current effort is to optimise adsorption performance. Results already superior to commercially available products (such as activated carbon) have been documented - Great White refined halloysite demonstrating over 1600 m²/g surface area and 25.7 mmol/g of CO₂ adsorption when synthesised into engineered porous carbon nanomaterial.

NNT owners and the GICAN unit received an ARC Linkage Grant to the value of \$350,000 for an R&D project, under the direction of Professor Jiabao Yi of GICAN, investigating the use of halloysite-derived nanocomposite materials for the removal of microplastics from contaminated water systems. This new project aims to advance next-generation composite materials for water treatment exploiting the high surface area and catalytic nature of halloysite nanotubes.

Compliance Statement

Payments made under a commercial lease agreement to a related entity of Dr Antonio Belperio, a Director of the Company, are reported in Appendix 5B, Section 6.1.

March 2021 Quarter ASX Announcements

The following significant announcements were lodged with ASX during or since the March Quarter:

- Minotaur initiates drilling at Pyramid gold project, 25 March 2021
- Carbon capture utilising Halloysite-derived adsorbent materials, 12 April 2021
- Minotaur completes first-pass drilling program at Pyramid gold project, 15 April 2021
- Gettysberg delivers encouraging assays at Pyramid gold project, 29 April 2021