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ASX Code: MEP

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The Company Announcements Office
Australian Securities Exchange Limited

Gold assays of up to 56.4g/t Au from surface rock chips at Mt Tarrengower, Maldon

HIGHLIGHTS:

- Rock chip samples taken from surface along Lisle's Reef at the Mt Tarrengower prospect at Maldon returned significant gold values, up to 56.4g/t Au
- Assays from 21 out of 22 chip samples from the mineralised outcrop returned anomalous gold grades
- Results lend authority to Minotaur's proposed drill investigation of Lisle's Reef below old workings

BACKGROUND:

Minotaur Exploration Limited ('Minotaur', ASX: MEP) recently entered into an Option Agreement¹ with ASX listed Mining Projects Group Ltd (ASX: MPJ) to explore and, at Minotaur's election, subsequently acquire Xplor Pty Ltd ('Xplor'), a wholly owned subsidiary of MPJ. Xplor is the owner of exploration licence EL 4533 at Mt Tarrengower, Maldon, Victoria.

LISLE'S REEF MINERALISED STRUCTURE:

The Mt View/Lisle's Reef area historically produced about 68,000 ounces of gold to a depth of 60 vertical metres from a number of shafts and workings along a mineralised ridge line extending for over 1km up to the summit of Mt Tarrengower, to the west of and above the town of Maldon (Figure 1). At the southern extent of this ridge is the Mt View adit, for which historic records show mining of both sub-vertical and flat lying mineralised quartz veins.

Minotaur interprets that the adit exposures veins are expressed overhead, at surface, as a line of shallow workings, where both sub vertical and flat east dipping quartz veins are exposed, continuing to the north to form the rich Lisle's Reef mining area. Rock chips taken across these veins and quartz stockworks recently returned numerous anomalous gold values, with the most significant values being 56.4 g/t Au and 11.2 g/t Au (Table 1).

The exposed quartz veins are generally narrow, up to 30cm wide, weakly altered, but with significant shearing and ferruginous, carbonate altered stockwork veining above and below the main veins (Figure 2). It appears that the main vein carries values of around 0.5 g/t Au whilst the adjacent sheared and fractured quartz sulphide altered zones contain the higher gold grades. A summary of the assay values is provided in Table 1.

¹ *Minotaur gains exposure to historic Victorian goldfields*, Minotaur Exploration Limited ASX Announcement, 17 September 2010

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The surface samples taken from directly above the Mt View adit are interpreted by Minotaur to be positive indication of a strongly mineralised system. Further to this, these results are supportive of the interpreted geological model whereby the Lisle's Reef mining area may be a similar setting to the Oswalds - North British mines, situated on Parkins Reef, a parallel structure one kilometre to the south-east. The Oswalds – North British series of underground mines historically produced up to 355,340 ounces of gold at a grade of 15 g/t Au from Parkins Reef. The model proposed as the basis for Minotaur's drilling programme at Lisle's Reef involves a vertical quartz vein feeder structure with branches of high grade, flat dipping quartz vein structures, geometrically similar to the Parkins Reef system.

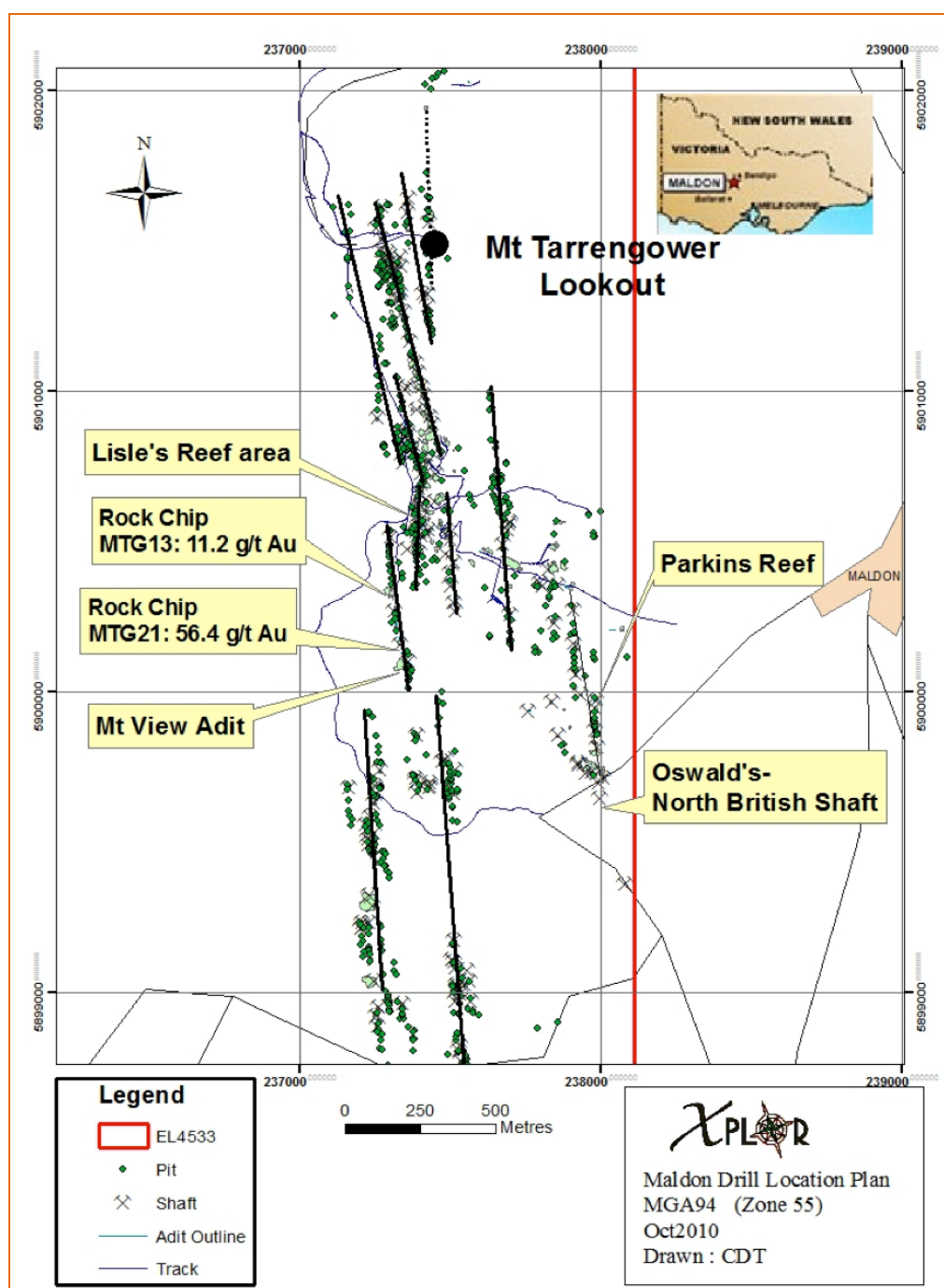


Figure 1: Mt Tarrengower Prospect, Rock Chip Location plan



Figure 2: Photo of mineralised quartz vein and associated stockwork in outcrop

Minotaur intends to undertake further intensive surface mapping and sampling around the Mt View/Lisle's Reef area, to finalise optimum collar locations for drillholes to test the deeper potential of the Lisle's Reef system.

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SAMPLE ID	Au (g/t)*	North	East	Lithology
MTG02	0.19	5901085	237375	Quartz vein
MTG03	0.51	5901015	237400	White quartz float
MTG04	0.49	5901015	237400	White quartz float
MTG05	0.26	5900935	237402	Fe-rich sediment
MTG06	0.5	5900935	237402	Fe-rich sediment
MTG07	0.76	5900935	237402	Fe-rich sediment with sulphides
MTG08	0.28	5900711	237450	White quartz float
MTG09	0.94	5900711	237450	Fe-rich sediment
MTG10	0.96	5900316	237317	east dipping quartz vein
MTG11	0.42	5900316	237317	quartz stringer zone
MTG12	0.66	5900316	237317	west dipping quartz vein
MTG13	11.2	5900316	237317	sheared quartz stringers
MTG14	0.21	5900316	237317	Quartz vein
MTG15	0.29	5900316	237317	Quartz vein
MTG16	0.25	5900316	237317	Quartz vein
MTG17	0.89	5900192	237319	Fe-rich quartz
MTG18	0.41	5900192	237319	east dipping quartz vein
MTG19	0.04	5900192	237319	unaltered sediment
MTG20	0.21	5900193	237330	fractured quartz
MTG21	56.4	5900107	237332	sheared quartz stringers
MTG22	0.62	5900107	237332	Fe-rich quartz
MTG23	0.51	5900107	237332	quartz vein float

Table 1: Gold Assay Values of Rock Chip Samples

**Gold assays were performed by Onsite Laboratories Bendigo using conventional 25g lead collection fire assay procedures analysed by Inductively Coupled Plasma optical (Atomic) Emission spectrometry (OES). A Quality Assurance/Quality Control ("QA/QC") program forms part of the drilling, sampling and assay program on the Mt Tarrengower Project.*

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Information in this report that relates to Exploration Results, Mineral Resources or Ore Reserves is based on information compiled by Dr A. P. Belperio, who is a Director and full-time employee of the Company and a Fellow of the Australasian Institute of Mining and Metallurgy. Dr A. P. Belperio has a minimum of 5 years experience which is relevant to the style of mineralization 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". Dr A. P. Belperio consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.