

NEWS RELEASE
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For Immediate Dissemination

MACARTHUR MINERALS IDENTIFIES MULTIPLE PRIORITY METAL SULPHIDE TARGETS AT LAKE GILES

Macarthur Minerals Limited (TSX-V: MMS) (the “Company” or “Macarthur”) is pleased to announce it has identified three high priority nickel sulphide targets at its Lake Giles project in Western Australia. The targets were derived from a recent geophysical survey using Moving Loop Electromagnetics (“MLEM”). Surveying at Moonshine successfully delineated two bedrock conductors, MC01 and MC02, with a further bedrock conductor identified at the Snark prospect.

Mr. Cameron McCall, Executive Chairman of Macarthur Minerals commented: *“Historical drilling by Macarthur of the iron formation at Lake Giles has demonstrated a potential for nickel sulphide in areas with komatiite ultramafics. There is also further potential for concentrated secondary nickel in the weathered profile above these ultramafics.*

The majority of the drilling for iron at Lake Giles was shallow, however over 90 of the holes intersected the upper komatiite ultramafic where anomalous nickel and cobalt assays were observed. This recent round of geophysics targeted hidden structures that may potentially be the source for a nickel sulphide deposit. We are now planning a drill program to test these priority targets.”

Geophysical Survey Program

A Moving Loop Electromagnetic (“MLEM”) survey was conducted across three prospects at the Lake Giles project. The survey targets were derived from previous drilling and soil geochemistry data that indicated potential for nickel sulphide. A follow-up Fixed Loop Electromagnetic (“FLEM”) survey was conducted at the southern extent of the Snark MLEM survey.

Interpretation of data was undertaken by geophysicists from Newexco who are experts in the application of geophysical surveys for the discovery of nickel sulphide deposits. The interpretation was undertaken on the basis of detecting bedrock conductors consistent with accumulations of massive sulphides. The prominent conductor at Moonshine has been defined as a priority sulphide target that the Company has immediate plans to drill. A drilling target has also been defined for the conductor identified at the Snark prospects.

Moonshine MLEM Conductor

The survey at Moonshine was conducted over an area of 60 ha. Data was collected from five survey lines at 200m spacing with 10 stations per line. Lines were orientated perpendicular to strike and coincided with previous drilling reporting anomalous nickel at surface up to 1.4% Ni and sulphide at depth.

Strong conductance was recorded across all five lines with modelling delineating two bedrock conductors, MC01 and MC02 (**Figure 1**). The two conductors are both coincident with a magnetic high that is faulted and consequently both MC01 and MC02 are likely to be the same geological unit. MC01 extended over a length of 700m with MC02 extending over 650m however the source can be defined as being open to the north and south.

The decay rates of both conductors displayed well-defined exponential shapes showing bulge characteristics from very high conductance amplitudes. This high conductivity within late time channel readings (Ch 36-39) are characteristic of sulphide deposits (**Figures 2 and 3**). The decay of conductor MC02 was the most defined and is recommended for drill testing because it exhibits the highest TEM amplitudes and the highest modelled conductance.

A drill hole, MC02_DH has been planned to intersect conductor MC02 at 166m (**Figure 1**).

Snark MLEM Conductor

The MLEM survey at Snark covered an area of 310 ha and comprised 14 lines extending 1.2km at 200m spacing. Data was collected from 13 stations per line for a total of 182 stations.

The survey identified two bedrock conductors at Snark, SC01 and SC02 (**Figure 4**). SC01 is interpreted on most of the MLEM lines and is coincident with a magnetic high. On survey line 72150N, a good response was observed with well-defined twin peaks and decay analysis showing good exponential shape at late time which is characteristic of a bedrock conductor. SC01 is considered a high priority for drill testing and a drill hole, SC01_DH has been planned to intersect the conductor at 162m.

Conductor SC02 is only interpreted on the northernmost lines and is not coincident with a magnetic anomaly indicating a potential sedimentary source. The anomaly possesses good characteristics however the strike extent and lack of coincident magnetic anomaly are detractive qualities and indicative of a possible stratigraphic/sedimentary source.

Exploration Program

Conductors MC01 at Moonshine and SC01 at Snark are considered high priority targets and will be tested by drilling. Newexco has planned two drill holes to intersect the conductors at the point where they display a high EM response (**Table 1**).

An initial program of two holes drilled to a depth of 200 m will be commenced upon receipt of drilling permits.

Table 1. Planned drill holes to intersect MLEM conductors

Hole ID	Easting	Northing	Dip	Azimuth	Length	Intersection
MC02_DH	788015	6674954	60	230	200	166
MC01_DH	782743	6698662	60	50	200	162

QUALIFIED PERSONS

Mr Andrew Hawker, a member of the Australian Institute of Geoscientists, is a full-time employee of Hawker Geological Services Pty Ltd and is a Qualified Person as defined in National Instrument 43-101. Mr Hawker has reviewed and approved the technical information, except that of the Reynolds Springs Project contained in this news release.

ABOUT MACARTHUR MINERALS LIMITED (TSX-V: MMS)

Macarthur Minerals Limited is an exploration company that is focused on identifying high grade gold, nickel, cobalt and lithium. Macarthur Minerals has significant gold, lithium, nickel, cobalt and iron ore exploration interests in Australia. Macarthur Minerals has three iron ore projects in Western Australia; the Ularring hematite project, the Moonshine magnetite project and the Treppo Grande iron ore project. In addition, Macarthur Minerals has significant lithium brine interests in the Railroad Valley, Nevada, USA.

On behalf of the Board of Directors,
MACARTHUR MINERALS LIMITED

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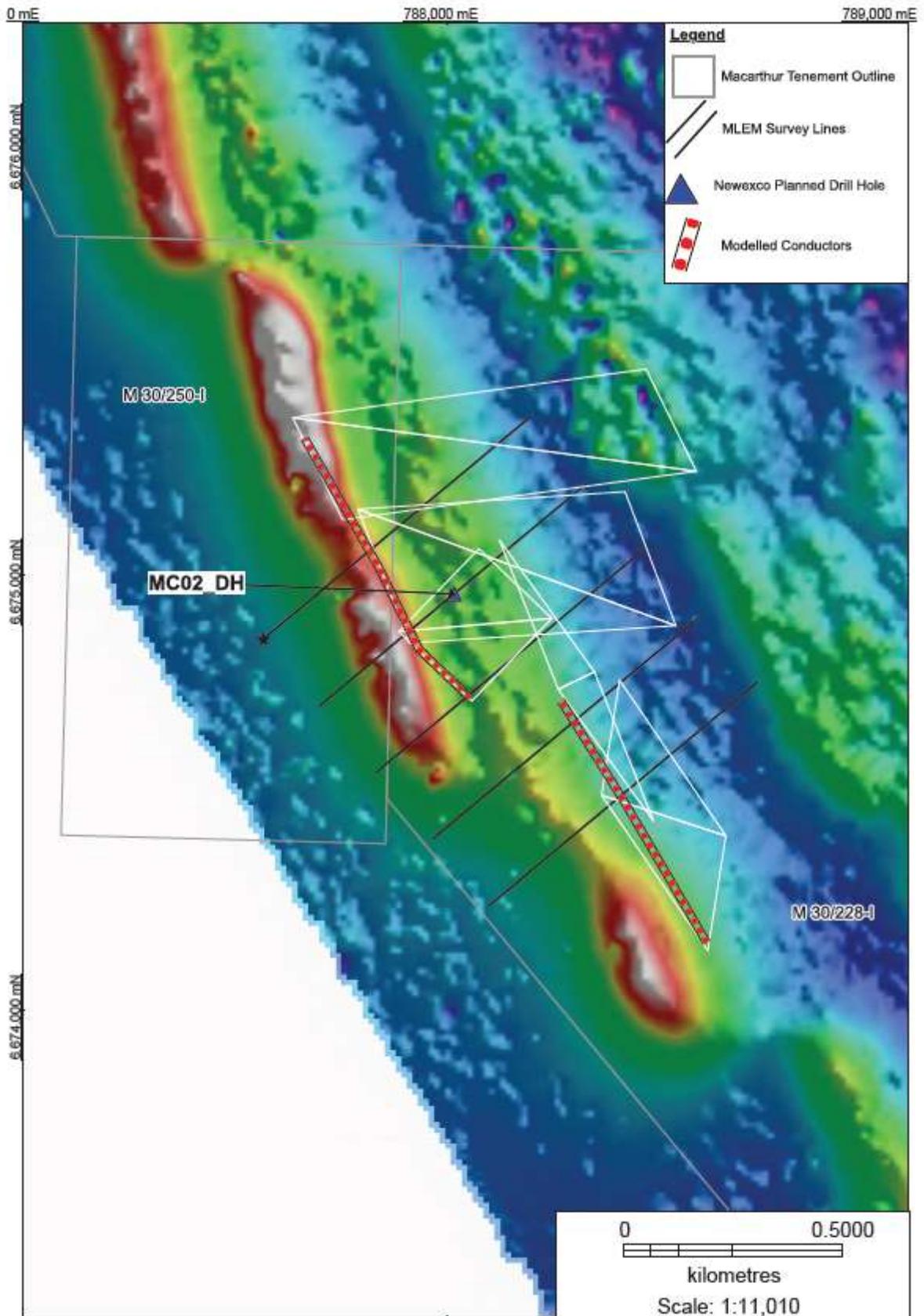


Figure 1. MLEM survey at Moonshine showing modelled conductors. Background image shows magnetic anomalies.

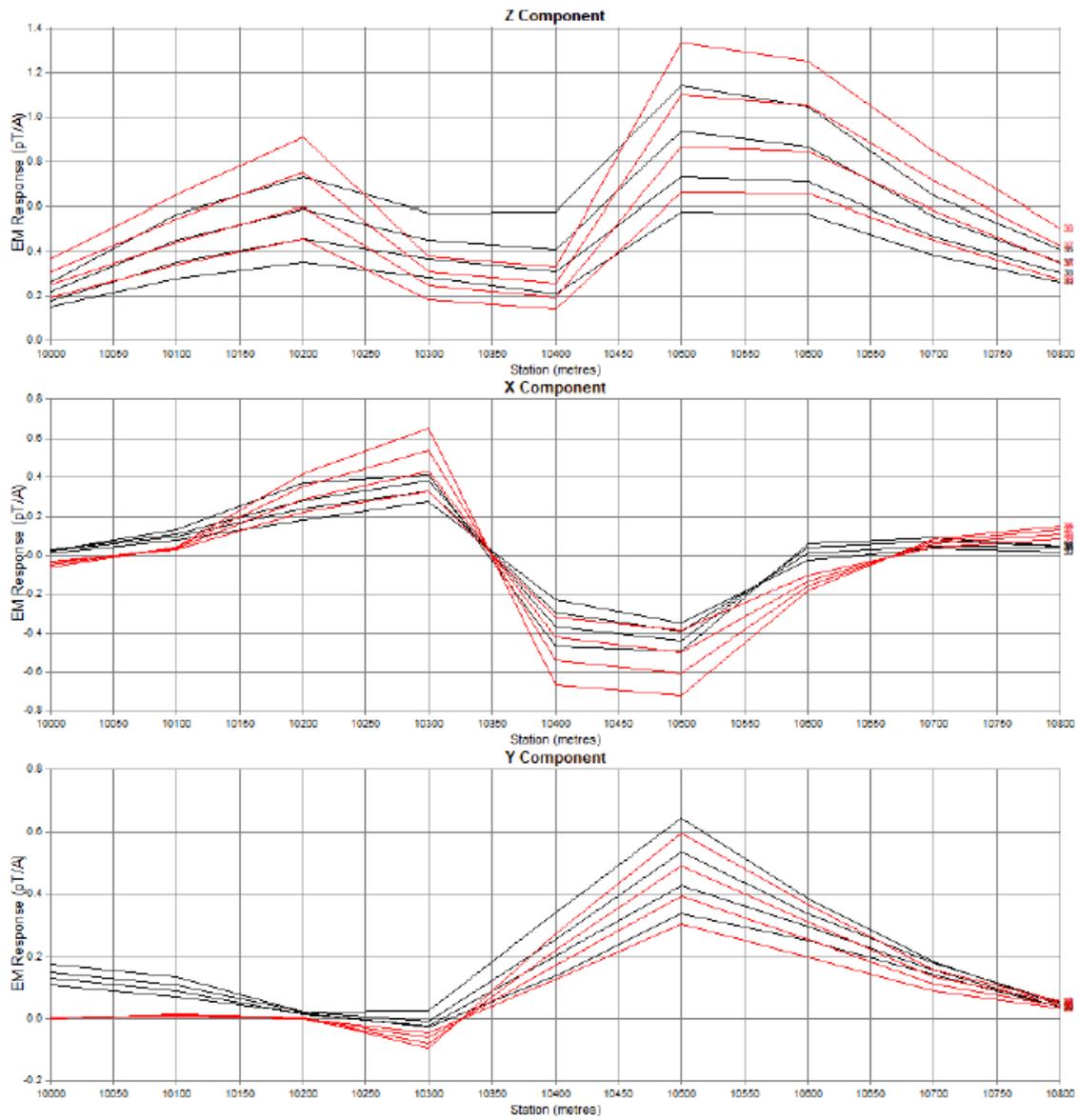


Figure 2. Late time (Ch36-39, 194ms - 371ms) linear profile at Moonshine MLEM Line 50000N.

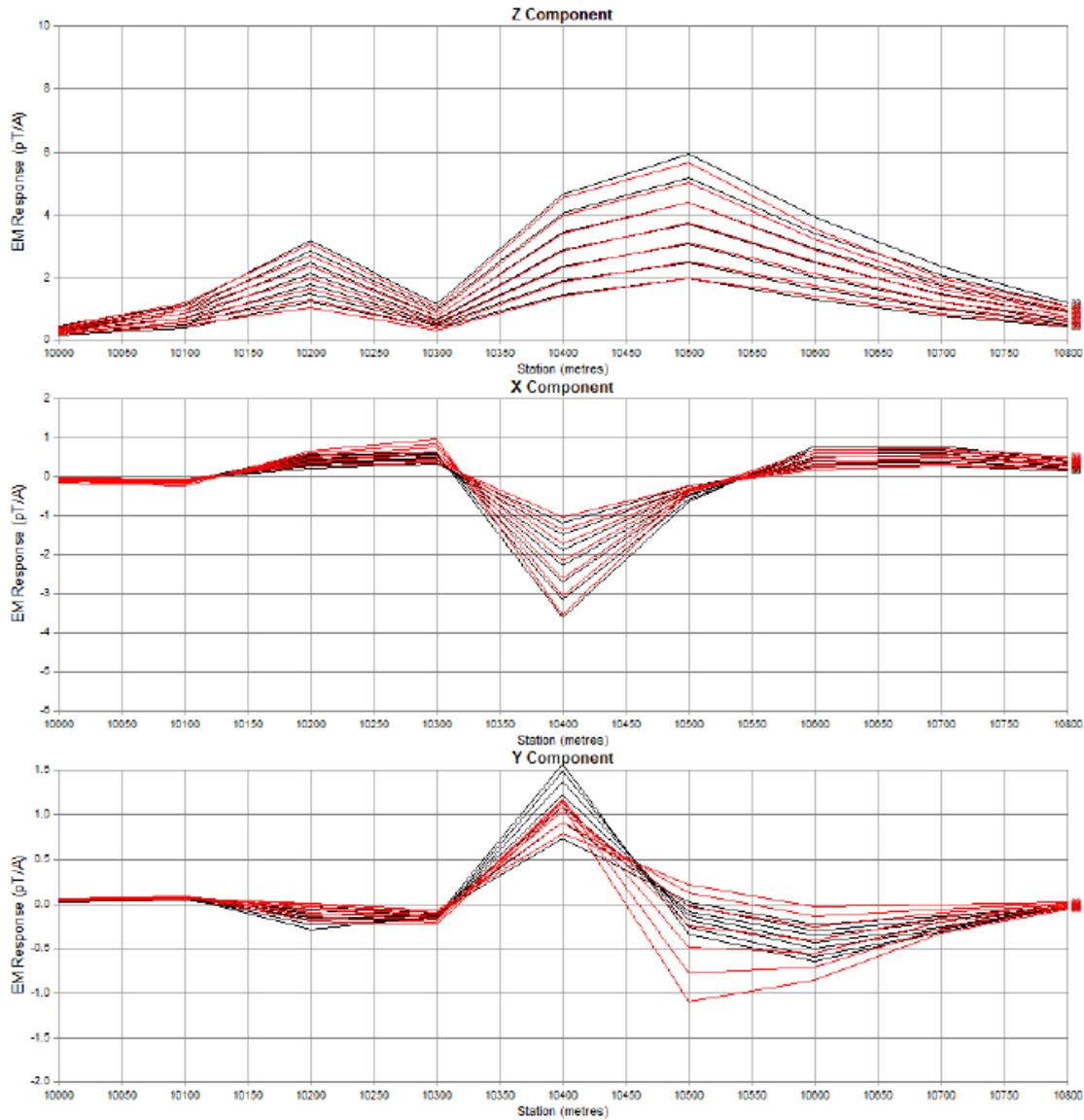


Figure 3. Late time (Ch33-Ch39, 101ms – 371ms) Linear profile at Moonshine MLEM line 50800N. Both showing modelled response in red versus field data in black. Very strong bulge characteristics of Bedrock Conductors.

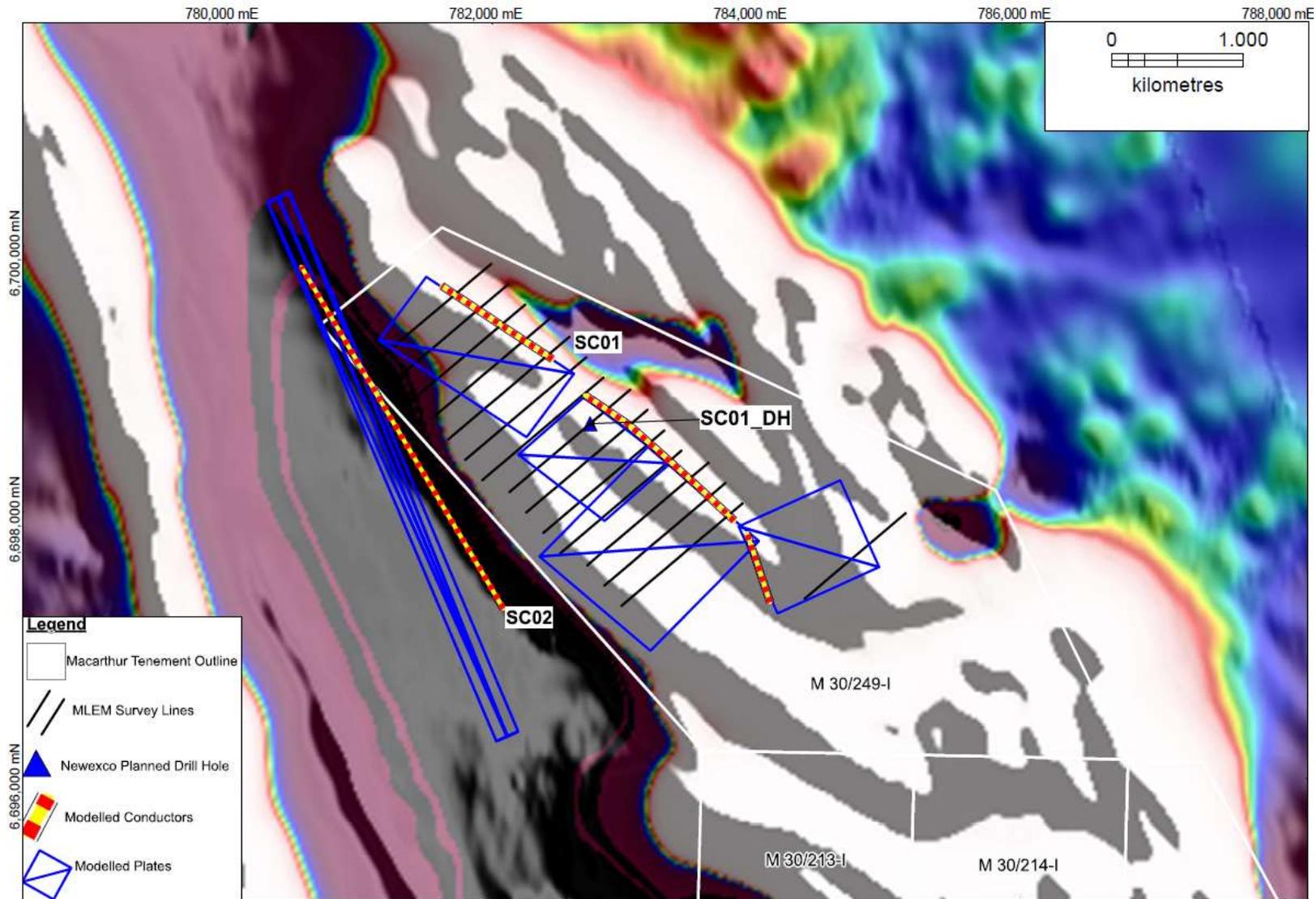


Figure 4. MLEM Survey at Snark showing modelled conductors. Background shows Total Magnetic Intensity anomalies