

26 OCTOBER 2023

ASX Release

## EXPLORATION UPDATE LENNON'S FIND AND EASTERN GOLDFIELDS

### HIGHLIGHTS

#### Lennon's Find (WA) Project –

- Field visit made to the Lennon's Find Project areas approximately 70km south-east of Marble Bar.
- Lennon's Find includes a Mining Lease with an Inferred Mineral Resource of 1.55 Mt at 5.9% zinc, 0.2% Cu, 1.6% Pb, 0.28 g/t Au, and 84g/t Ag (See ASX announcement 8<sup>th</sup> August 2023)
- Re-interpretation of historical IP survey in progress for planning drill programme below current resource.

#### Eastern Goldfields -

- Final preparation in progress for drill programme to test key targets in Majestic/Kurnalpi tenements.
- Drilling to be conducted in the current quarter subject to receiving all approvals.

Orange Minerals NL (ASX: OMX) ("Orange" or "the Company") is pleased to announce that a recent site visit has been made by MD David Greenwood and exploration manager Phil Shields to the **Lennon's Find** project near Marble Bar.

An earn in joint Venture agreement with Muskeeter Mining Ltd was announced to the ASX on 8<sup>th</sup> August 2023. Orange can earn 51% of the Lennon's Find Project (M45/368) by spending A\$500,000 by 31 March 2026 (includes an upfront payment made of A\$200,000). Orange must spend a minimum of \$200,000 on exploration at Lennon's Find (including 500 metres of drilling) by 31 January 2025. After meeting the 51% threshold, Orange may earn up to 75% of the Lennon's Find Project by spending an additional A\$500,000 (A\$1.0 million in total) by 31 March 2028. After 75% has been earned by Orange both Muskeeter and Orange would contribute expenditure to the JV, with standard dilution clauses applying.

In the **Eastern Goldfields** Preparation is in progress for a maiden drill programme to test three key targets on the Majestic/Kurnalpi tenements. An RC program of approximately 1000m is proposed for tenements E 28/2294, P 25/2268 and P 26/4415 and will be conducted in the last Quarter of 2023 subject to receiving all approvals.

Commenting on the Lennon's Find site visit, Managing Director of Orange David Greenwood said:

**"It was extremely beneficial for Phil and myself to see the Lennon's Find project near Marble Bar. The site visit was primarily to walk the known resource, to understand Lennon's Find in a regional context, and to gain a detailed understanding of historical work undertaken to plan future work programmes and drilling".**



## Lennon's Find Field Visit

A field visit was recently made to the Lennon's Find project, located in the Archean Marble Bar greenstone belt about 70km ESE of Marble Bar (Figure 1).

The Lennon's Find deposits consist of a number of stratiform, lenticular mineralised lenses which are hosted within quartz muscovite schist horizons of the Duffer formation (Figure 2). Mineralisation is located 10 m to 20 m stratigraphically below the contact of an overlying apex basalt. A series of discontinuous mineralised pods extend over a strike length of approximately 4.5km. The main mineralised lenses from west to east are named Grey Nurse, Tiger, Hammerhead, Mako, Mako East & Bronze Whaler (Figures 3 – 6).

At surface, mineralisation consists of thin, discontinuous gossan pods and lenses with secondary copper-lead-zinc carbonates. Mineralisation generally consists of sphalerite, chalcopyrite and galena with associated barite and pyrite.

In the field evidence of barite and copper carbonates (pseudo malachite and azurite) were observed in outcrop. It appears the mineralisation is restricted to a narrow zone (~5m wide) which dips moderately (45° to 60°) to the southeast, away from the Mount Edgar Granite Complex.

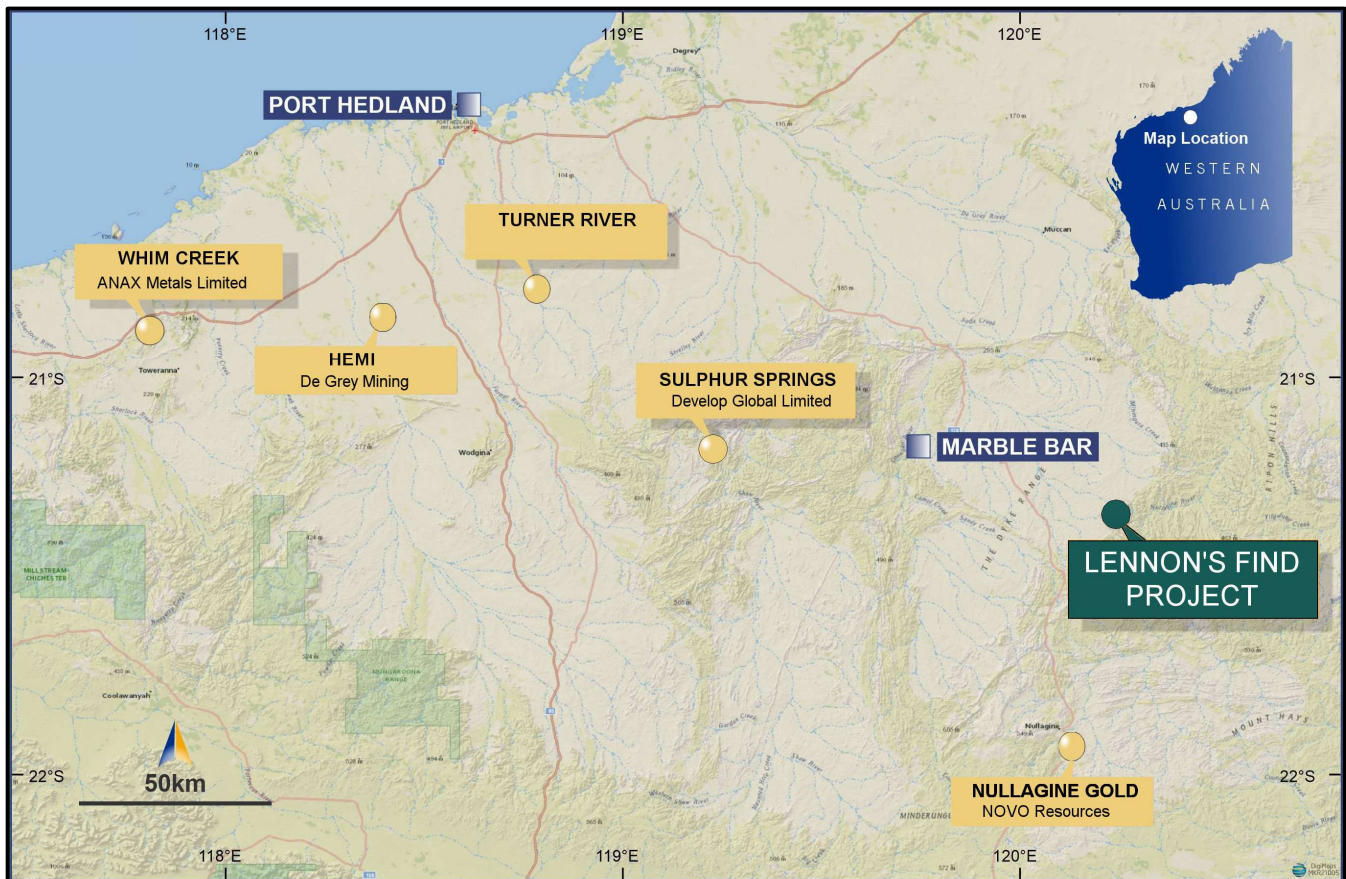
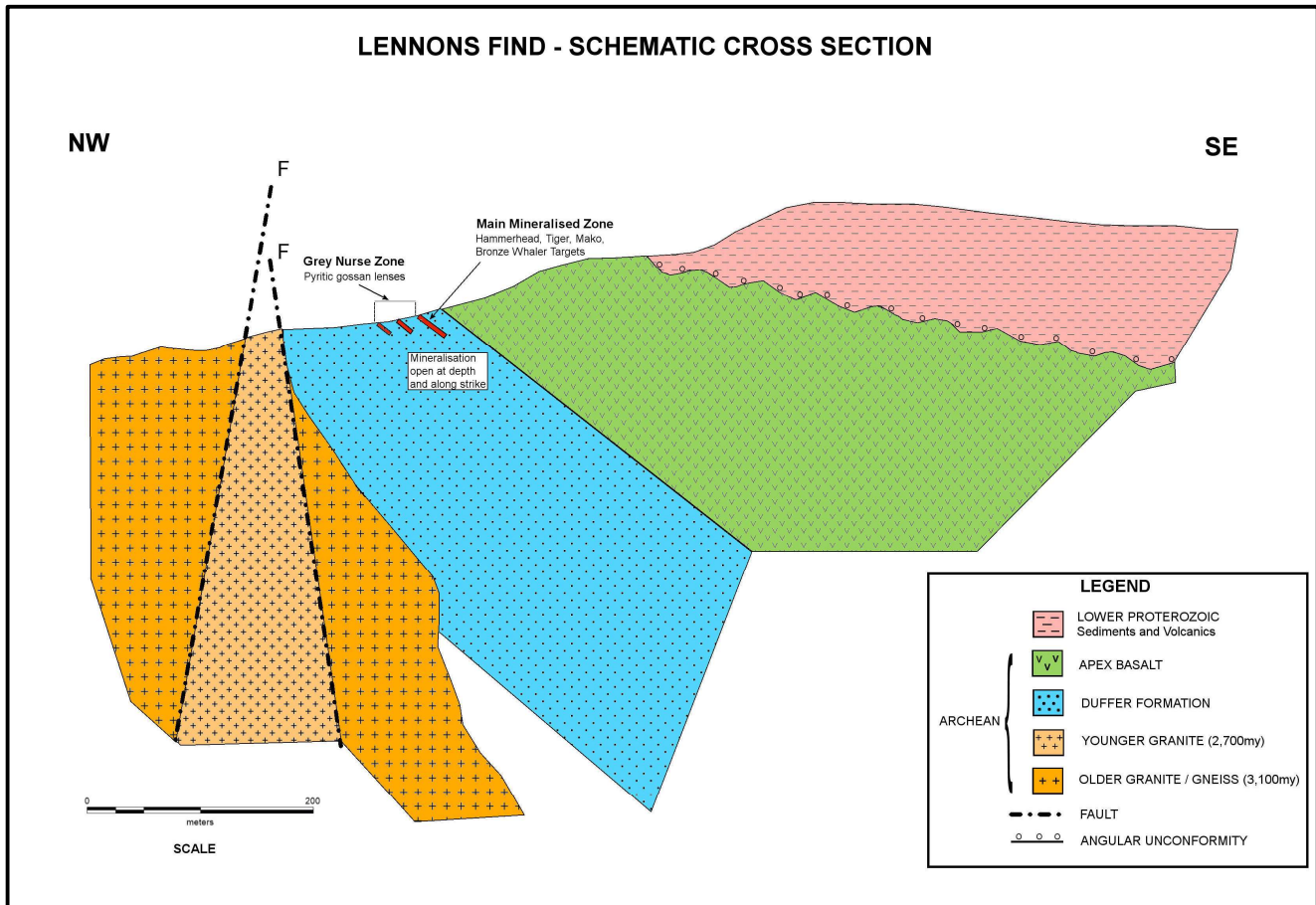


Figure 1 – Location map of Lennon's Find Project





**Figure 2** – Lennons Find schematic cross section.



**Figure 3** - Lennons Find gossan and outcrop- Grey Nurse Prospect





**Figure 4** – Lennon's Find Tiger Prospect

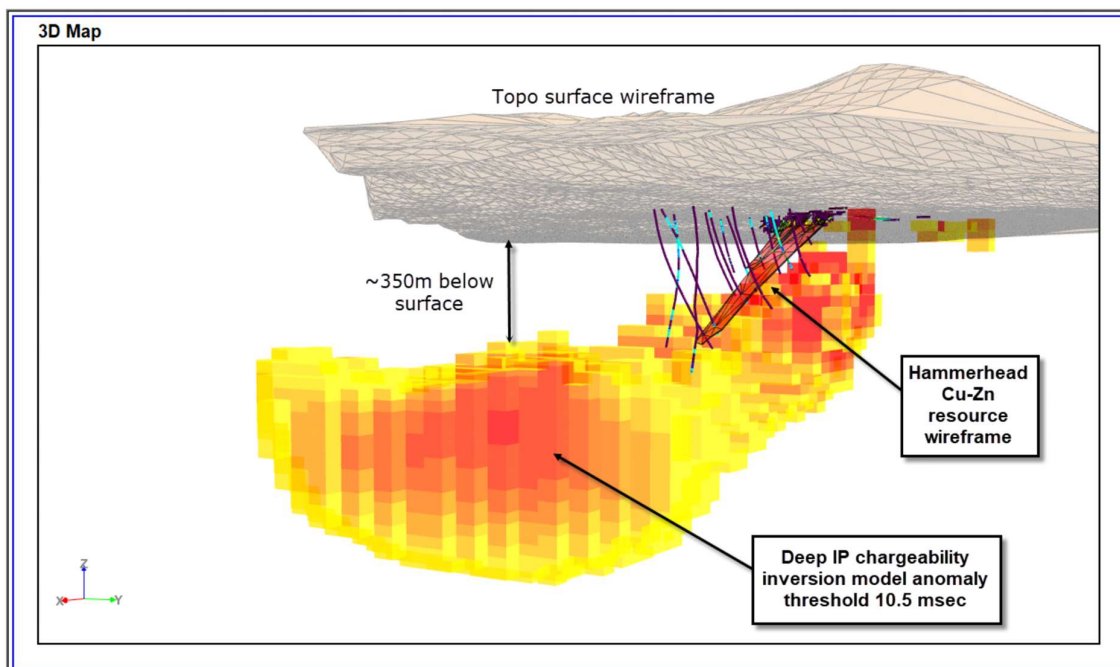


**Figure 5** – Lennon's Find Hammerhead Prospect



**Figure 6** -Lennon's Find Bronze Whaler

An offset pole-dipole induced polarization survey, orientated NW-SE across the Hammerhead resource, was completed in April 2018 by Resource Potentials Pty Ltd. The survey successfully identified a deep IP chargeability anomaly response positioned down dip and to the SE of the resource at Hammerhead (Figure 7). Orange Minerals is currently reviewing the geophysical data with the view of delineating drill targets for potential massive sulphides.



**Figure 7** – IP Chargeability – Hammerhead Resource (Resource Potentials 2018)



**Eastern Goldfields**

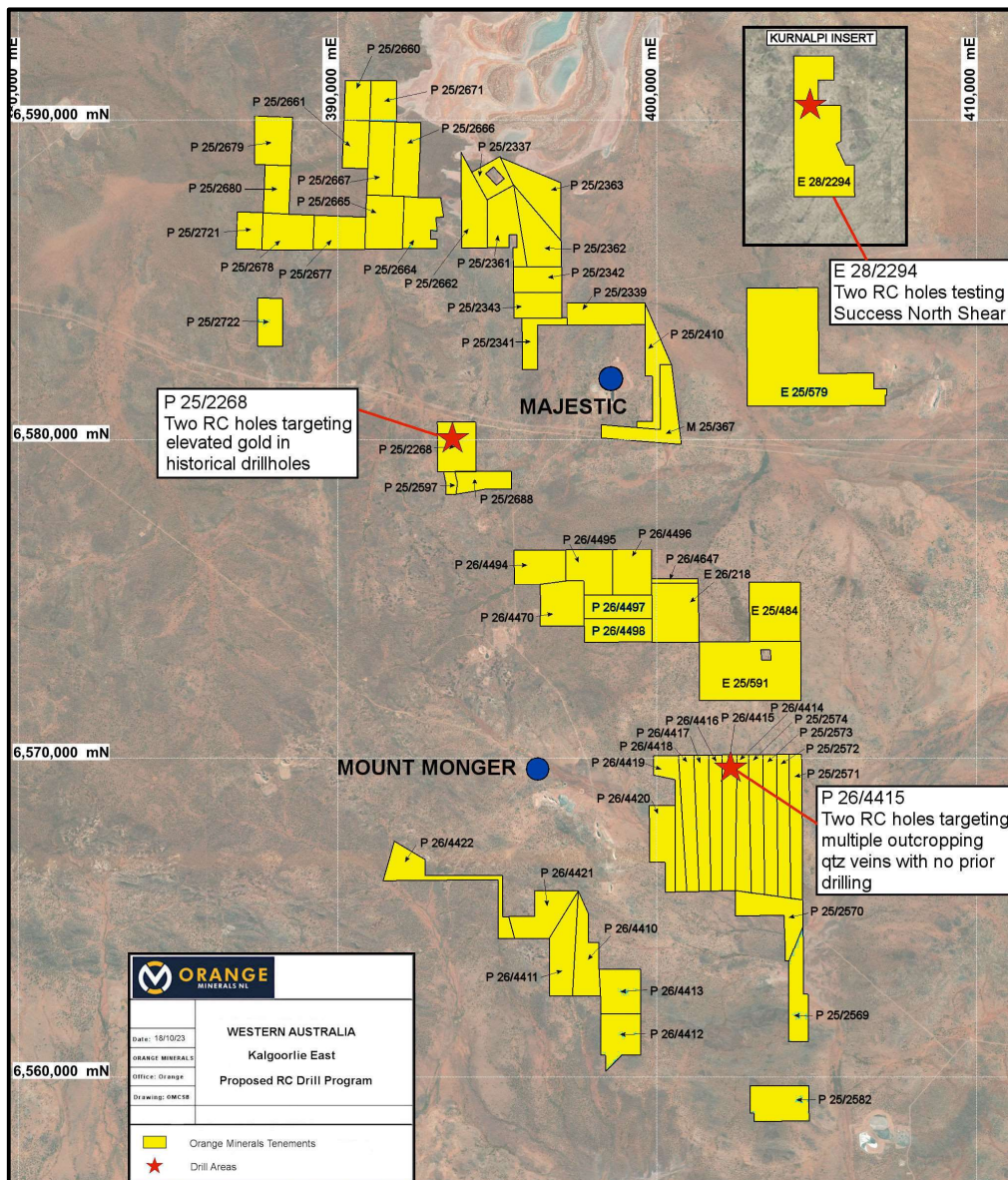
Preparation is in progress for a maiden drill programme to test three key targets on these tenements.

An RC program of approximately 1000m is proposed for tenements E 28/2294, P 25/2268 and P 26/4415 and will be conducted in the last Quarter of 2023 (Figure 8). The holes will target significant gold intercepts in historical drilling, known mineralised structures and prominent outcropping quartz veining with anomalous rock chips (Burton Dam).

E28/2294: (Kurnalpi): covers part of the prospective Kurnalpi goldfield and drilling is planned to test the northern extension of the Avoca Fault, that hosts several gold prospects in adjoining leases.

P25/2268: will test elevated gold in historical drillholes.

P26/4415(Burton Dam): in an area previously untested by drilling, the planned programme will test multiple quartz veins associated with NE-SW and NS trending faults, and in an area where rock chip sampling earlier this year returned a number of significant gold results.



**Figure 8 – Drill planning Eastern Goldfields**



This ASX announcement has been authorised for release by the Board of Orange Minerals NL.

**-ENDS-**

### **About Orange Minerals NL**

Orange Resources NL is an exploration company listed on the ASX (ASX: OMX) with Australian-based projects in the Lachlan Fold Belt (LFB) of NSW and Eastern Gold Fields of WA, both world-class mineral provinces. The LFB of NSW hosts major mines including Cadia/Ridgeway, North Parkes and Lake Cowal and the tenements in the Eastern Goldfields of WA are close to the Daisy Milano gold mine and Black Cat Resources Majestic Project. The Orange Minerals exploration team plan to rapidly explore its tenement packages with aggressive exploration programmes at its key properties. The company is currently focussing on the Calarie & Wisemans Creek Projects in NSW and the Majestic/Kurnalpi tenements and Lennon's Find Project in WA.

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### **Competent Persons Statement**

*The information in this report that relates to Exploration Targets, Exploration Results, Mineral Resources or Ore Reserves is based on information compiled by Phil Shields, a Competent Person who is a Member of the Australian Institute of Geoscientists. Mr Shields is an employee of Orange Minerals NL and has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr Shields consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.*

### **Forward Statement**

*This release includes forward – looking statements which involve a number of risks and uncertainties. These forward-looking statements are expressed in good faith and believed to have a reasonable basis. These statements reflect current expectations, intentions or strategies regarding the future and are based on current assumptions. Should one or more of the uncertainties materialize, or should underlying assumptions prove incorrect, actual results may vary from the expectations, intentions and strategies described in this announcement. No obligation is assumed to update forward looking statements if these beliefs or opinions should change.*

