



## ASX Announcement

22<sup>nd</sup> January 2025

## Deep Diamond Hole Completed at Fortitude North

### Lake Carey Gold Project

#### HIGHLIGHTS

- As foreshadowed in the September 2024 quarterly report, a 767m deep diamond drill hole has been completed at Fortitude North
- The drilling was designed to test strong seismic responses (seismic model) at around 450m depth – all assays yet to be received
- The seismic model was developed using data generated under Matsa's research program *Development of seismic survey methodologies for use in a hyper-saline environment (Lake Carey)* using DAS technology
- Key features of the model suggest the presence of a large synform setting and strong seismic responses that could indicate locations of potential gold bearing mineralisation
- The drilling intersected a number of moderately to strongly altered mafic/felsic sequences
- Significantly, the drilling appears to have intersected rock sequences that could explain the strong seismic responses from the R&D seismic survey lending some support to the model and quality of the data collected during the seismic survey
- Data collected from this drilling will be used to calibrate and test the seismic model against actual field results
- Further drilling is planned at Fortitude North with designs dependent on the review of the seismic model and assays from this drilling

#### CORPORATE SUMMARY

##### Directors

Paul Poli - Executive Chairman

Pascal Blampain

Andrew Chapman

##### Shares on Issue

650.237 million

##### Unlisted Options

226.16 million @ \$0.05 - \$0.10

##### Top 20 shareholders

Hold 65.68%

##### Share Price on 21<sup>st</sup> January

##### 2025

4.1 cents

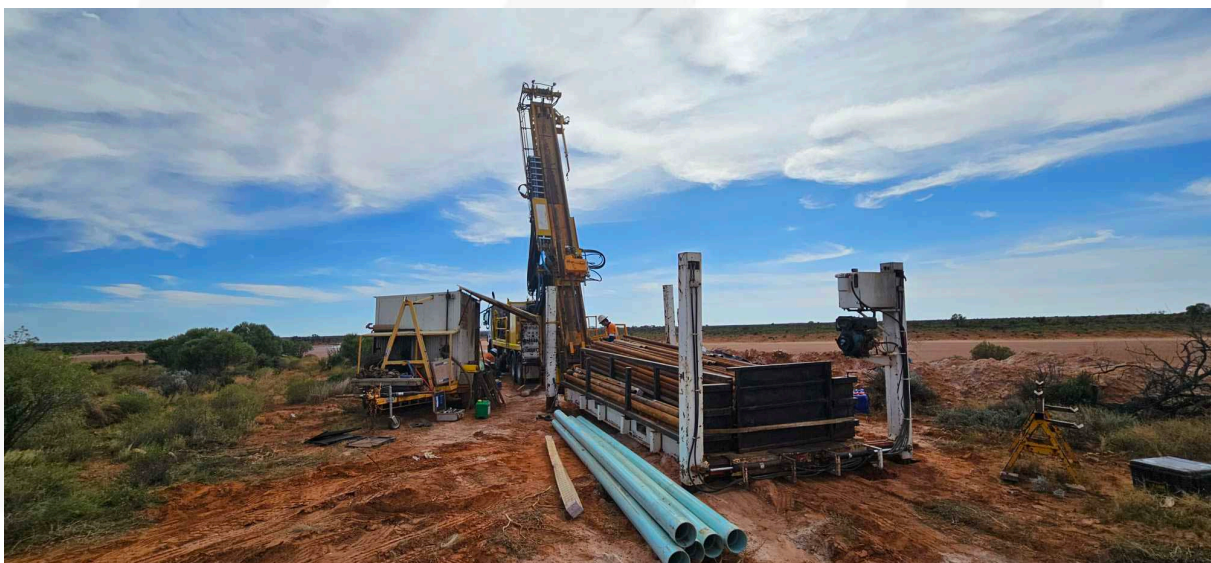
##### Market Capitalisation

A\$26.66 million

Matsa Resources Limited (“Matsa”, “Company”) is pleased to advise that a deep 767m EIS supported diamond drill hole has been completed at Fortitude North (Figures 1 & 2). The drilling was designed to test a number of strong seismic reflectors interpreted from Matsa’s R&D project *Development of seismic survey methodologies for use in a hyper-saline environment (Lake Carey)* which could host gold bearing mineralisation (Figure 3).

Matsa has previously outlined a 1.7km gold anomaly and drilling in 2023<sup>1</sup> returned a number of spectacular high grade thick gold intercepts including:

- **25m @ 3.3g/t Au** from 147m (23FNRC006)
- **14m @ 3.4g/t Au** from 113m, and;
- **35m @ 3.0g/t Au** from 150m (23FNRC016)
- **19m @ 3.8g/t Au** from 100m (23FNRC011)
- **11m @ 3.8g/t Au** from 108m (23FNRC017)
- **11m @ 4.2g/t Au** from 130m (23FNRC007)
- **12m @ 3.4g/t Au** from 143m (23FNRC022)



<sup>1</sup> ASX Announcement 2 June 2023 - Large Gold System Confirmed at Fortitude North Lake Carey

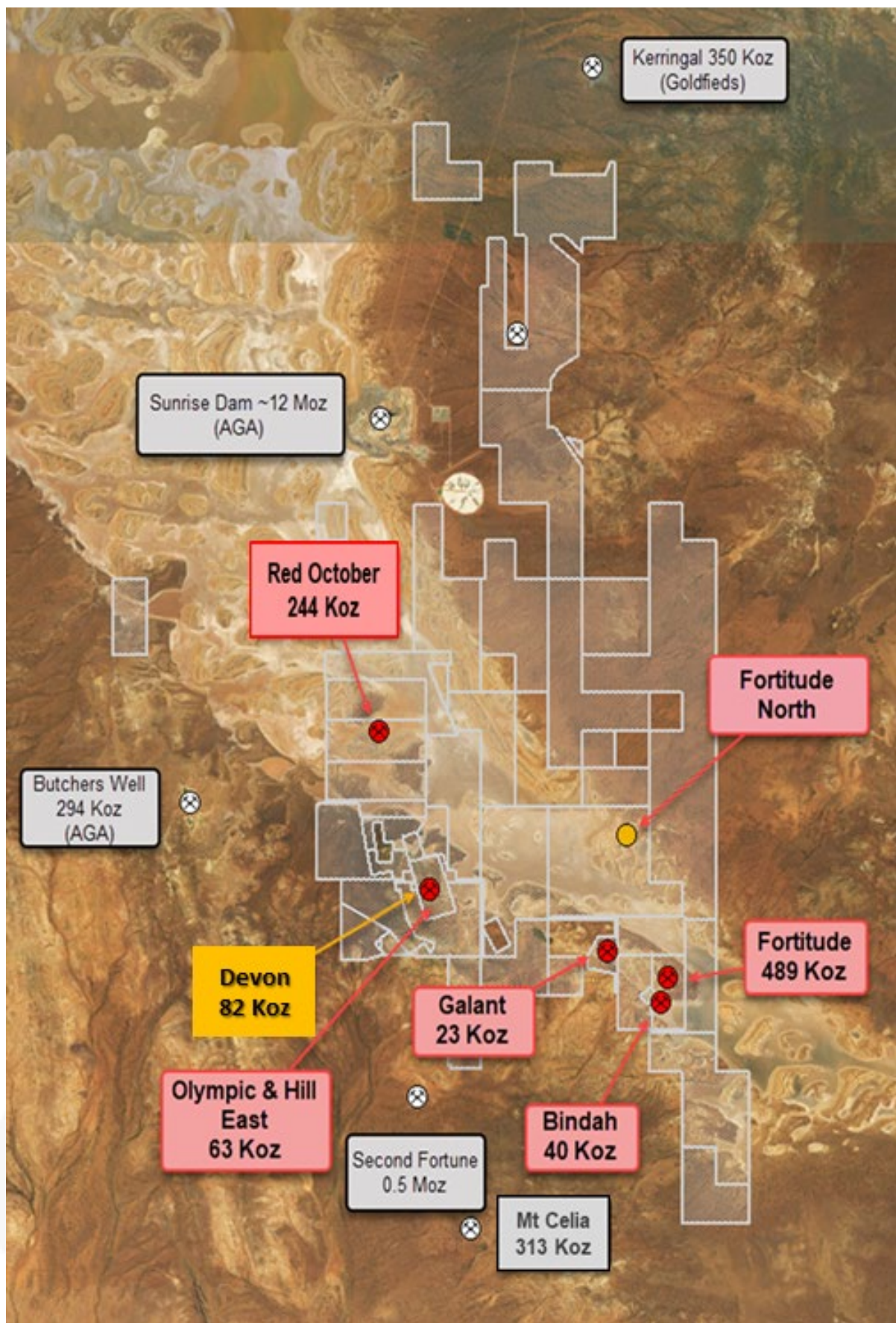


Figure 1: Matsa's Lake Carey Gold Project and Fortitude North Project

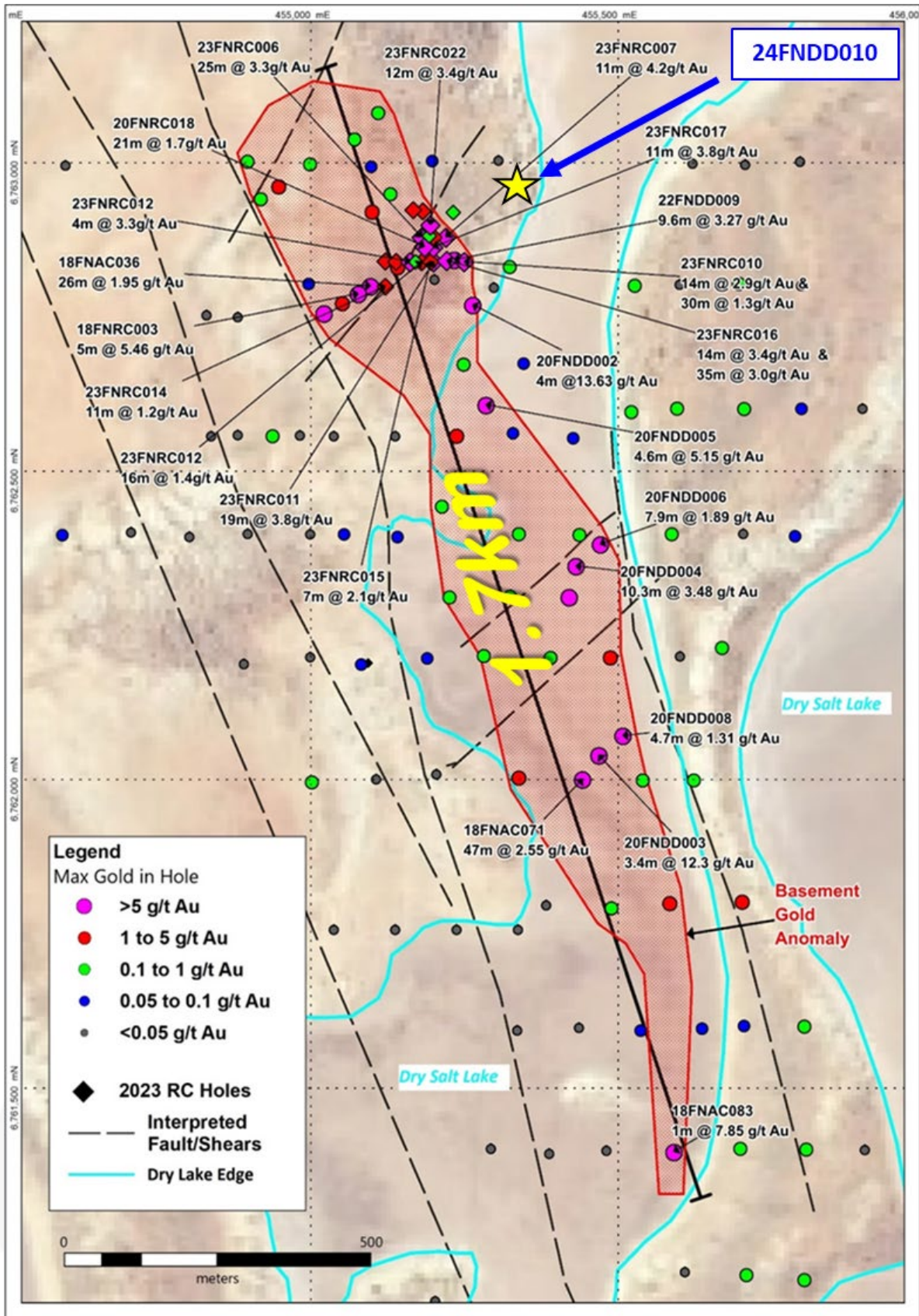
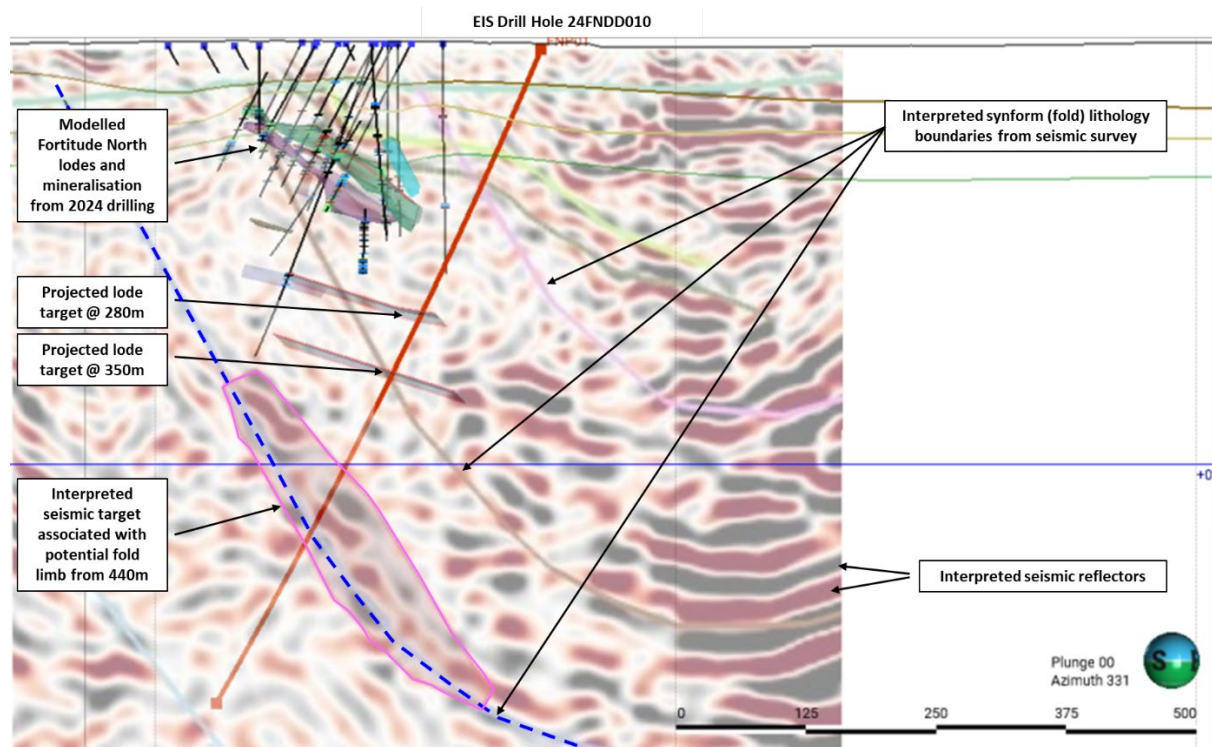


Figure 2: Summary of Fortitude North drilling showing 1.7km strike extent and location of 24FNDD010

## Drill Hole 24FNDD010

The drill hole was designed to test a number of seismic features that suggest the presence of a syncline geological setting (Figure 3). The potential presence of a syncline differs from the accepted geological model of steeply dipping stacked lithology sequence. Important features associated with deformed or folded synclines can result in structural thickening which in turn often host considerable concentrations of target minerals such as gold. The gold mineralisation at Hill End in NSW is a good example where gold occurs in the hinge of tightly folded rock sequences. It is hoped that using DAS for seismic surveys could be a cheap tool to help in identifying these types of targets at Fortitude North.



**Figure 3:** 24FNDD010 was designed to test a number of seismic features and potential extensions of known lodes

The drill hole was also designed to test for extensions to previously identified mineralisation. The overall geological model for those lodes is one of moderately plunging (to the north) high grade shoots within a lower grade envelope, potentially associated with a regional shear structure.

Key target depths are:

- Lode target @ 280m
- Lower lode target @ 350m
- Large scale seismic response between 400m and 460m

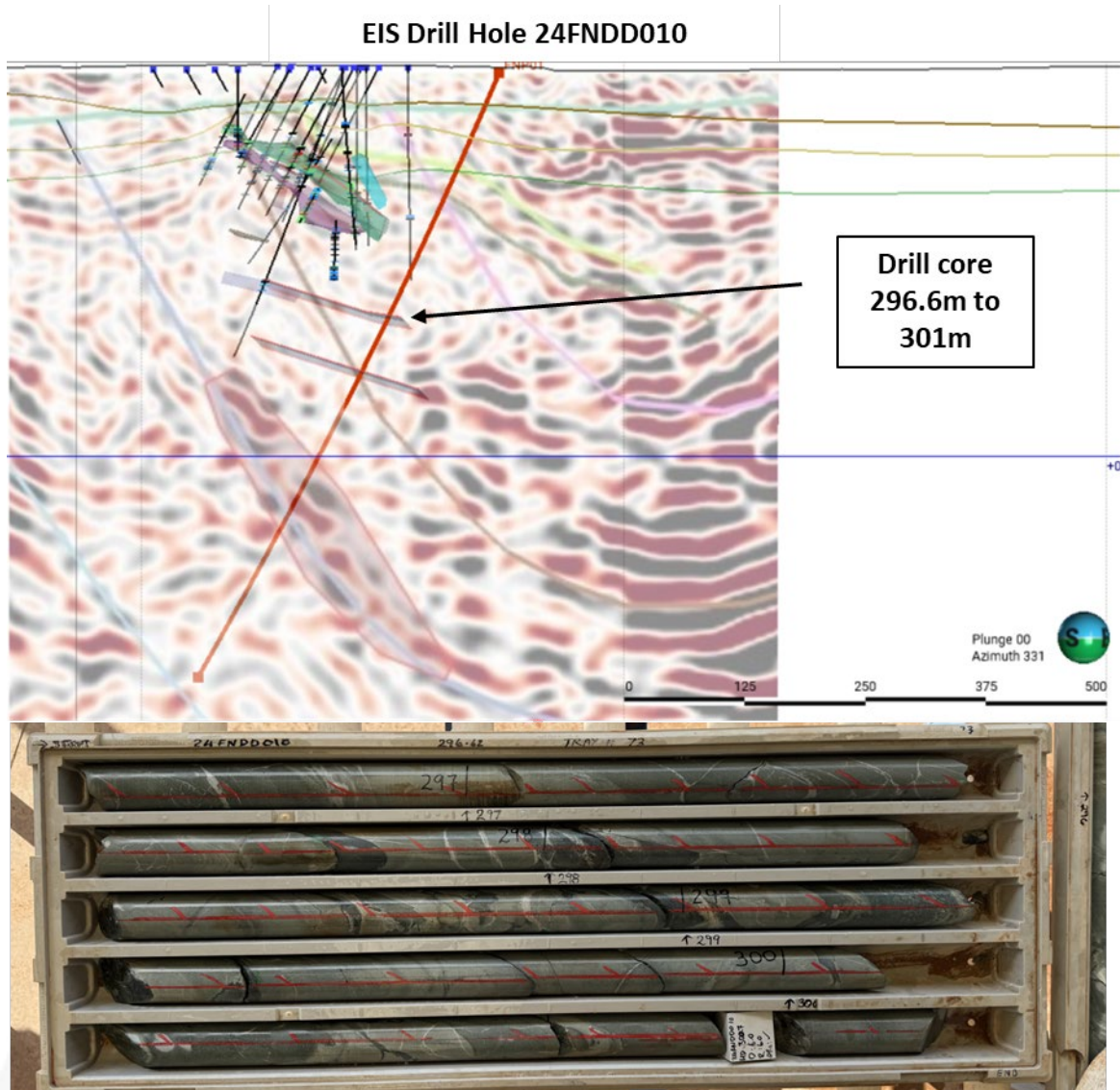
***A JORC Table 1 has not been prepared for this release as there is no data to report and will be prepared once assays have been received and reported in future announcement(s).***

Collection of petrographic and physical rock properties is incomplete with final results expected late in the March 2025 quarter.

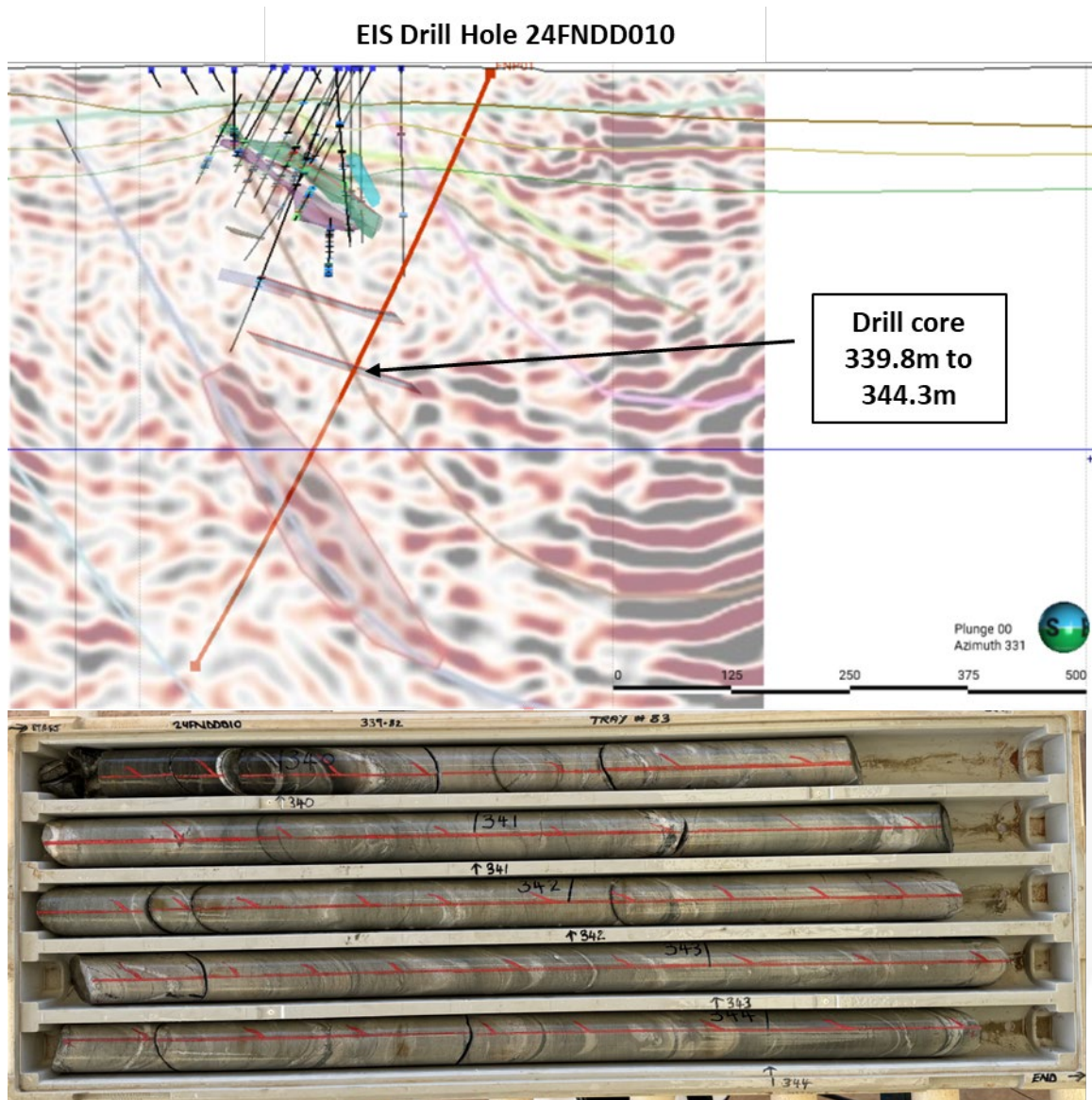
Preliminary observations indicate that:

- Minor altered zone intersected around expected target at a depth of 280m
- A moderate to strongly altered zone of 12m was intersected around the 350m depth mark
- A stacked sequence of strongly altered rocks was observed between 468m and 643m that coincides with the deep seismic target

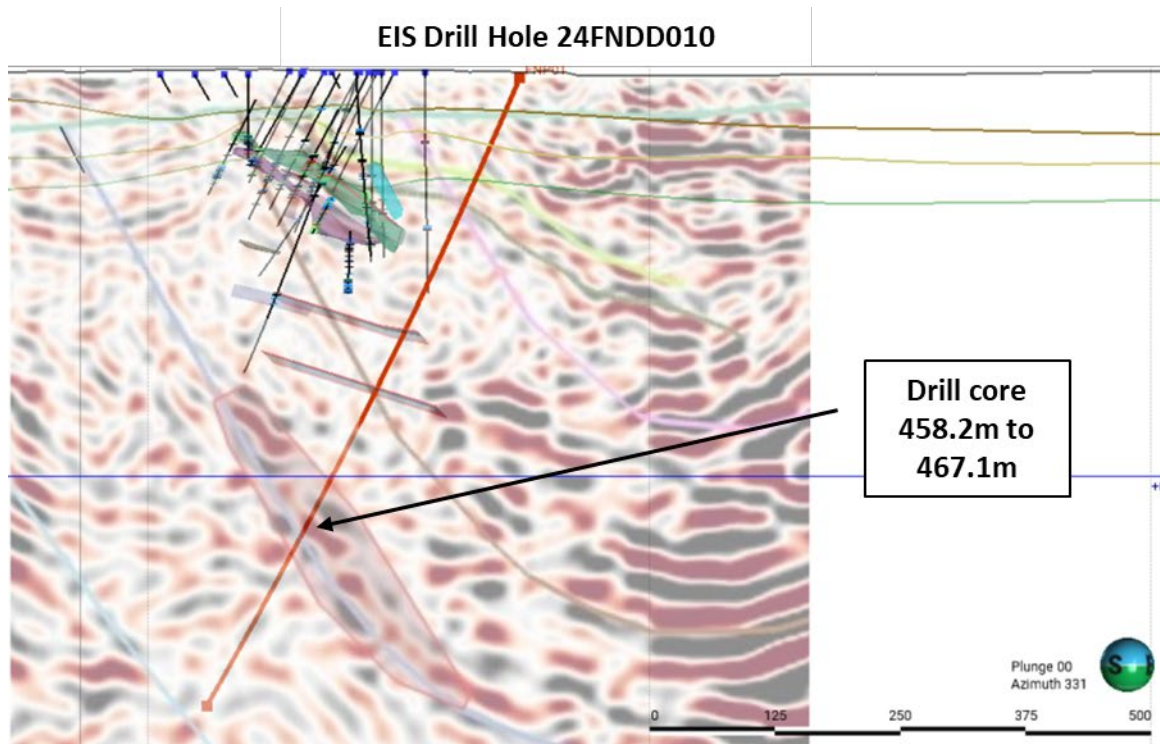
A photo of representative drill core interpreted to correlate for each of the three targets intersected is included below:



*Zones of moderate to strong alteration within mafic rocks*



*Strongly altered mafic sequence with strong sericite*



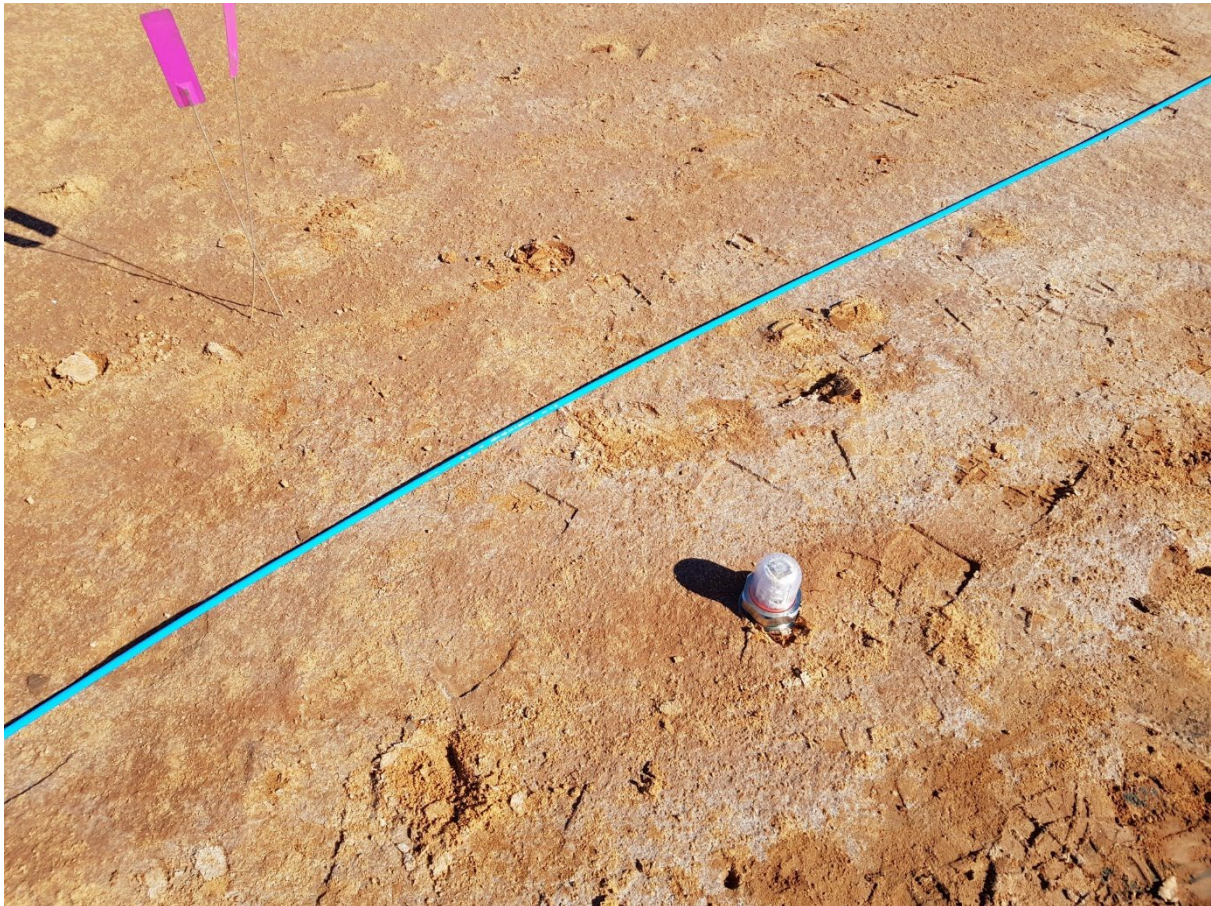
*Intense alteration starting from 459m*



## NEXT STEPS

Key next steps to advance the Fortitude North project includes:

- Finalise logging, geophysical properties, sampling and assays
- Test and calibrate existing seismic model with data collected from this drilling
- Extend the R&D program with further seismic surveys including the potential to use the new drill hole as either a source or receptor of signals in future seismic surveys
- Further drilling is planned to continue testing the seismic model and test for extensions to previously identified gold and lode systems



*DAS cable and geophone laid out for the R&D seismic survey at Fortitude North*

## MINERAL RESOURCES

The global Mineral Resource Estimate for the Lake Carey Gold Project remains at **949,000oz @ 2.5g/t Au** as outlined in Table 2 below.

	Cutoff g/t Au	Measured		Indicated		Inferred		Total Resource		
		('000t)	g/t Au	('000t)	g/t Au	('000t)	g/t Au	('000t)	g/t Au	('000 oz)
<b>Red October</b>										
Red October UG	2.0	105	8.4	608	5.4	635	5.4	1348	5.6	244
<b>Red October Subtotal</b>		<b>105</b>	<b>8.4</b>	<b>608</b>	<b>5.4</b>	<b>635</b>	<b>5.4</b>	<b>1348</b>	<b>5.6</b>	<b>244</b>
<b>Devon</b>										
Devon Pit (OP)	1.0	18	4.4	450	5.3	21	5.4	488	5.2	82
Olympic (OP)	1.0	-	-	-	-	171	2.8	171	2.8	15
Hill East (OP)	1.0	-	-	-	-	748	2.0	748	2.0	48
<b>Devon Subtotal</b>		<b>-</b>	<b>-</b>	<b>450</b>	<b>5.3</b>	<b>940</b>	<b>2.2</b>	<b>1407</b>	<b>3.2</b>	<b>145</b>
<b>Fortitude</b>										
Fortitude	1.0	127	2.2	2,979	1.9	4,943	1.9	8,048	1.9	489
Gallant (OP)	1.0	-	-	-	-	341	2.1	341	2.1	23
Bindah (OP)	1.0	-	-	43	3.3	483	2.3	526	2.4	40
<b>Fortitude Subtotal</b>		<b>127</b>	<b>2.2</b>	<b>3021</b>	<b>2.0</b>	<b>5,767</b>	<b>1.9</b>	<b>8,915</b>	<b>1.9</b>	<b>553</b>
<b>Stockpiles</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>191</b>	<b>1.0</b>	<b>191</b>	<b>1.0</b>	<b>6</b>
<b>Total</b>		<b>232</b>	<b>5.0</b>	<b>4,079</b>	<b>2.8</b>	<b>7,342</b>	<b>2.2</b>	<b>11,861</b>	<b>2.5</b>	<b>949</b>

**Table 2: Lake Carey Resource\***

\*Matsa confirms that it is not aware of any new information or data that materially affects the Resource as stated. All material assumptions and technical parameters underpinning the Mineral Resource estimate continue to apply and have not changed since the last release. There have been no changes in the above table since the last release.

This ASX announcement is authorised for release by the Board of Matsa Resources Limited.

For further information please contact:

**Paul Poli**

Executive Chairman

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### Competent Person Statement

#### Exploration results

The information in this report that relates to Exploration results is based on information and compiled by Pascal Blampain, who is a Member of the Australasian Institute of Mining and Metallurgy and the Australian Institute of Geoscientists. Mr Blampain serves on the Board and is a full time employee, of Matsa Resources Limited. Mr Blampain has sufficient experience which is relevant to the style of mineralisation and the type of ore deposit under consideration and the activities 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 Blampain consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.