



Exploration Presentation: FY24 AGM

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26 November 2024



Find.

Enhance.

Deliver.

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Competent person

Unless otherwise advised above or in the Announcements referenced, the information in this presentation that relates to exploration results, mineral resources and ore reserves is based on information compiled by Mr Ian Chalmers, FAusIMM, FAIG, (Alkane Technical Director) who has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking 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 Chalmers consents to the inclusion in this presentation of the matters based on his information in the form and context in which it appears.

Previously reported information



This document includes information that relates to previously reported results which were prepared in accordance with the requirements of the JORC Code (2012). This information was included in Alkane's previous ASX announcements as follows:

- *1 Annual Resources and Reserves Statement FY24 - 4 September 2024
- *2 Tomingley Regional Exploration Update - 7 October 2024
- *3 Near Mine Exploration at Tomingley Delivers Significant Intercepts - 16 September 2021
- *4 Revised Kaiser Resource Estimate improves confidence and Grade of Resource Base at Boda District - 29 April 2024
- *5 Boda-Kaiser Scoping Study - 10 July 2024
- *6 NMPP Regional Update. Potential For New Au-Cu Porphyry Deposits Demonstrated - 21 June 2024
- *7 Acquisition of Exploration Tenements in NSW Completed with Initial Tenement Review - 30 May 2023
- *8 Large Cu-Zn-Pb-Ag Targets Confirmed at the Rockley Project - 8 August 2024
- *9 High Grade Zones Intersected at Boda by Revised Drilling Orientation - 18 December 2020
- *10 Continuity of High Grade Gold-Copper Breccia Intersected at Boda - 3 May 2021
- *11 Mineralised system Continues to Grow at Boda - 22 October 2021
- *12 Significant High Grade Gold-Copper Mineralisation Intersected at Boda - 23 March 2020

The Company confirms that it is not aware of any new information or data that materially affects the information included in the relevant market announcement(s); in the case of estimates of mineral resources or ore reserves, estimates are based on and fairly represents information and supporting documentation that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed; and that the form and context in which the Competent Person's findings are presented have not been materially altered.

FY24 Exploration Summary

Tomingley Gold Project:

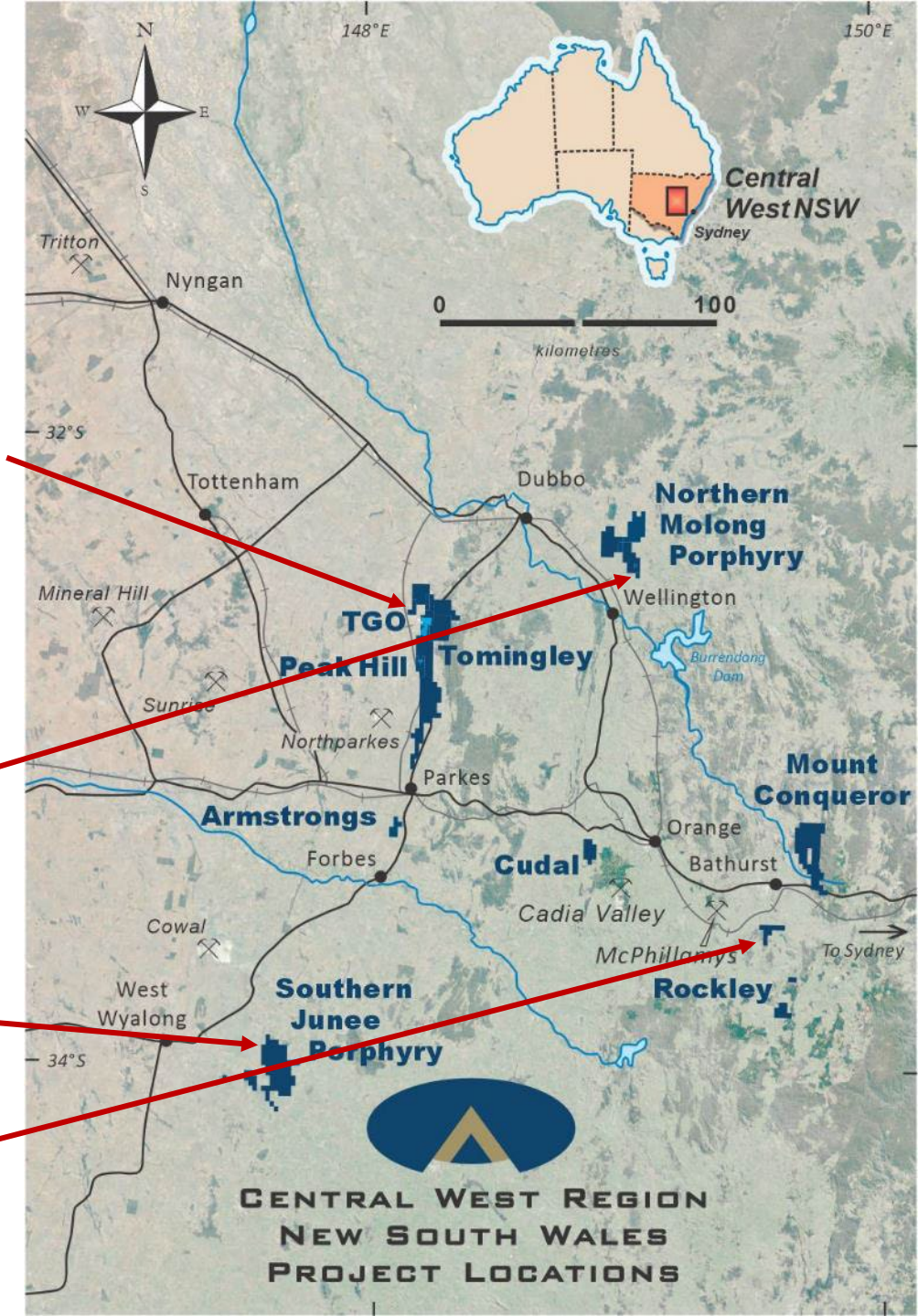
- 68,155m of underground grade control and resource expansion drilling at TGO. Inclusive of mining depletion, Resources and Reserves were lifted around 10%.^(*1)
- Exploration drilling completed at El Paso and Plains near-mine targets. Airborne gravity survey for structural/lithological definition.^(*2)
- Technical study at Peak Hill supports possible porphyry source at depth.

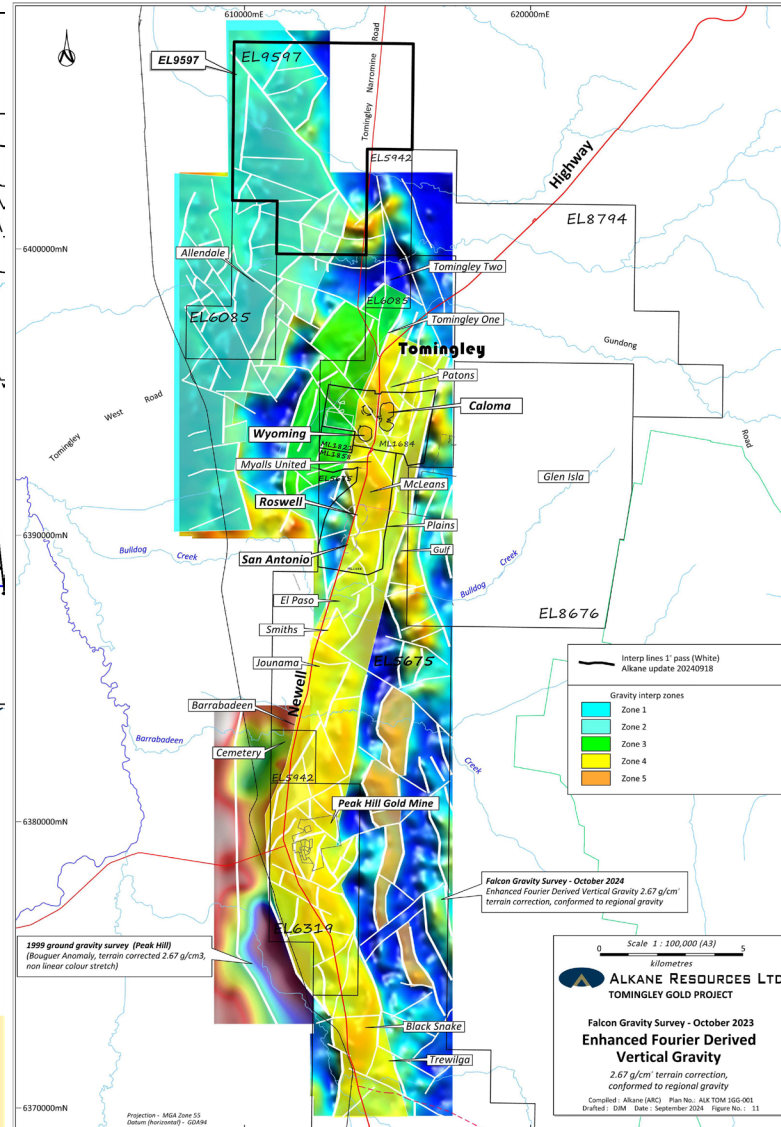
Northern Molong Porphyry Project:

- 55,100m of RC and Core drilling for resource classification and upgrade completed at Boda and Kaiser.^(*4)
- Airborne gravity survey for regional target definition, and limited Aircore-RC-Core drilling tested several regional targets.^(*6)
- Potential development Scoping Study delivered positive results.^(*5)

Several promising targets identified within the South Junee Porphyry Project following data review and gravity survey.^(*7)

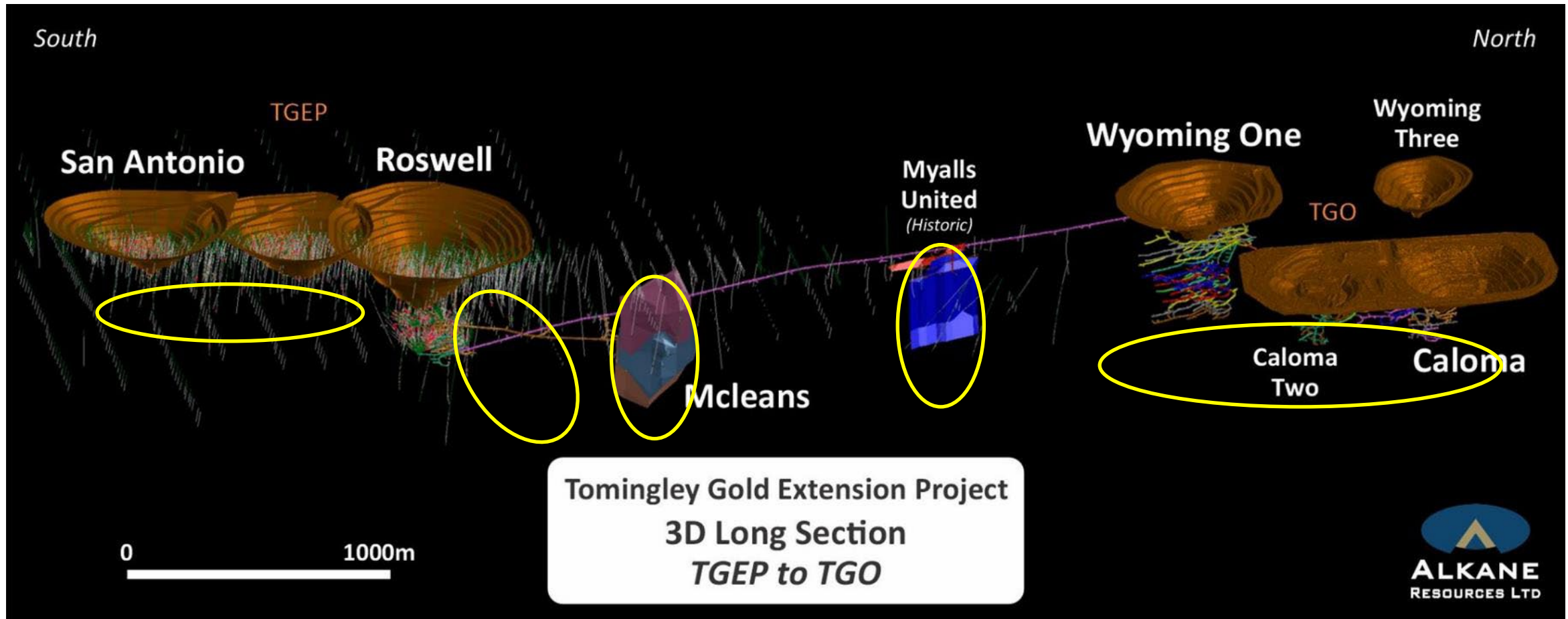
Encouraging Au-Cu-Pb-Zn results from reconnaissance drilling at Apsley (Rockley Project).^(*8)





Only 30% of the 20km corridor from Tomingley Two to Peak Hill has been explored in any detail. Another 30km south of Peak Hill.

Tomingley – Resource and Reserve Expansion



San Antonio 'Deeps'
drilling commenced

Roswell down dip and
north plunge extensions

Mcleans UG
reserve drilling

Review of historic Myalls
mining and drilling
(70koz production)

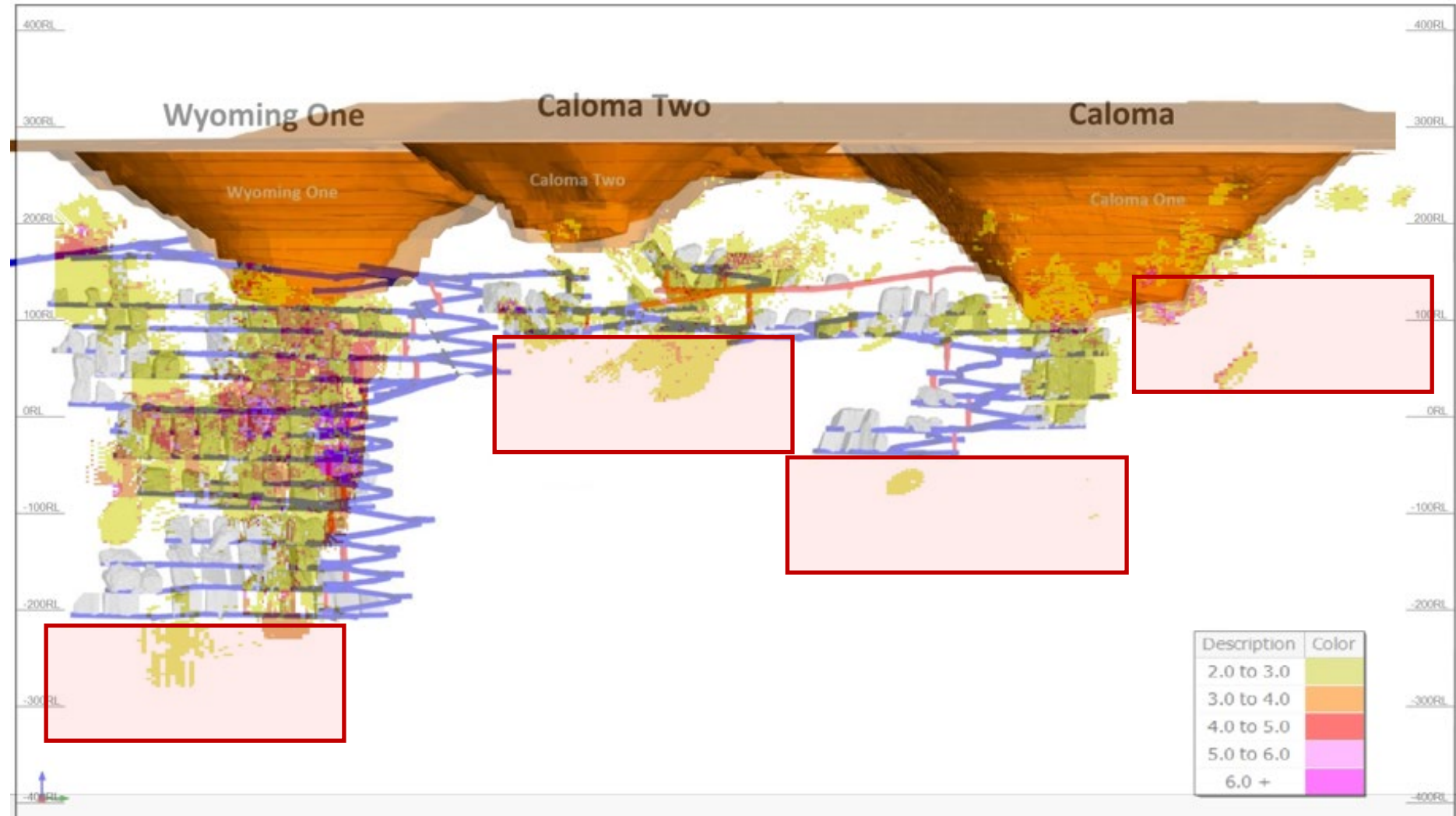
Continued UG reserve drilling at Wyoming
and Caloma, following mineralisation along
strike and down dip.

TGO Underground Development



Resource blocks with
grade and underground
development

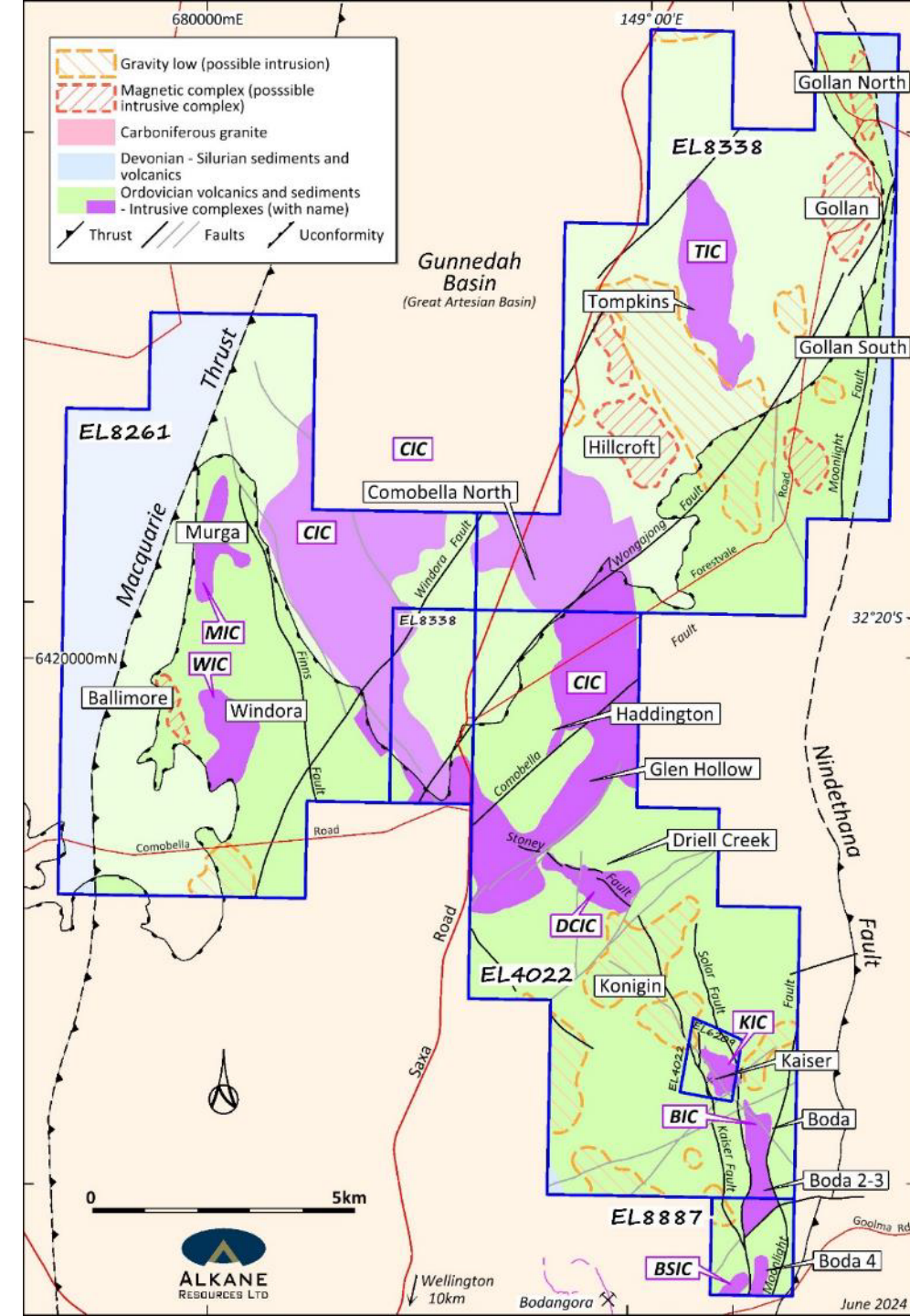
Resource Target



Northern Molong Porphyry Project

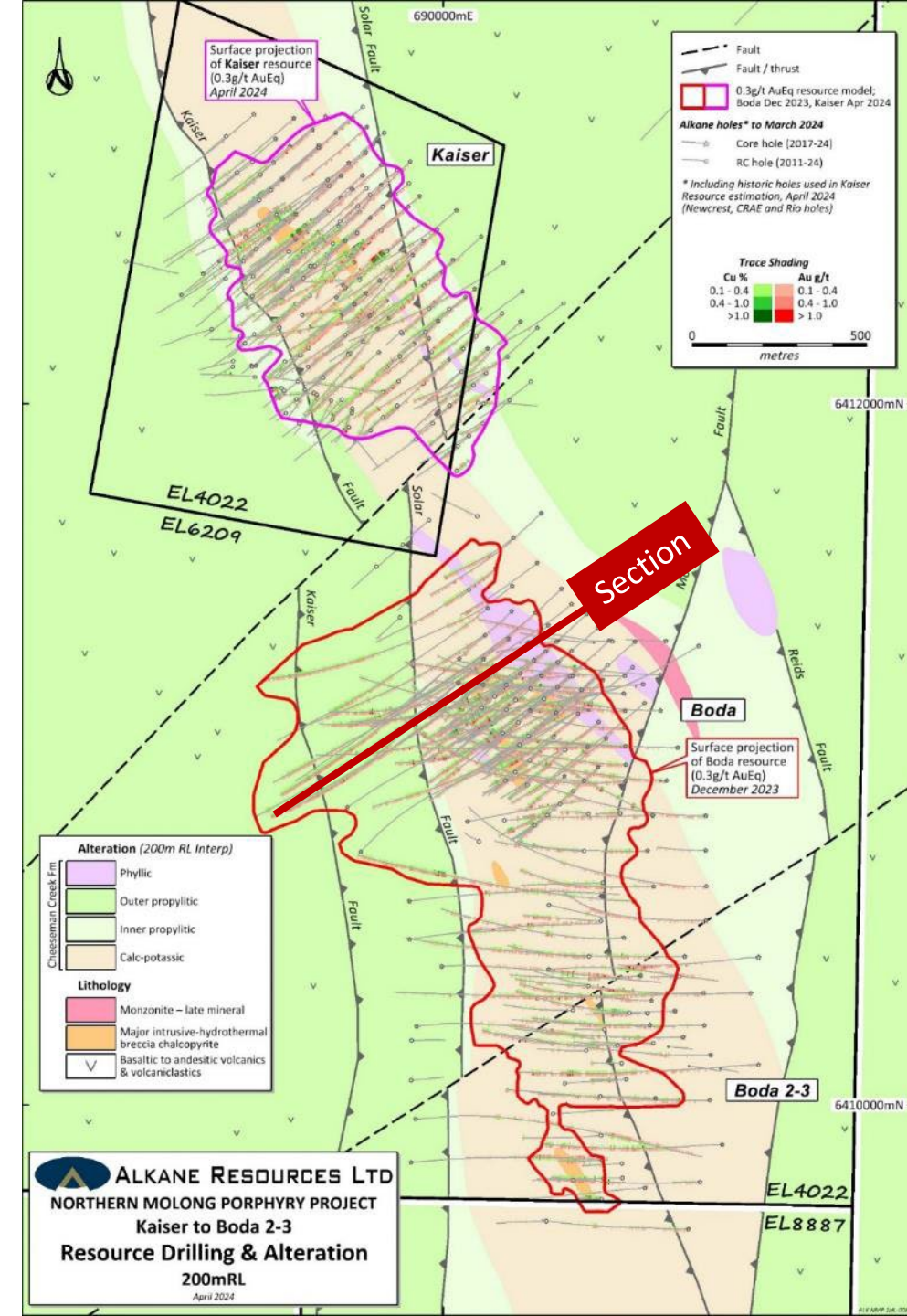
Regional Geology

- Regional airborne gravity survey confirmed that the volcanic sequence has been intruded by a number of monzonitic to dioritic complexes. As elsewhere in the belt, these intrusives are the cause of the extensive alteration and mineralisation.
- The central part of the project is dominated by the Comobella Intrusive Complex (CIC), a 10 by 7km body with several peripheral mineralised targets (Driell Creek, Glen Hollow and Haddington) which have only been sporadically drilled.
- Boda, Boda South and Kaiser form a linear fault bounded belt of intrusive complexes over 5km and are the hosts of the currently defined resources.
- Limited work has been completed on the satellite Windora, Murga and Tompkins complexes.



Boda-Kaiser Geology

- Alkane has completed over 240,000 metres of drilling within the NMPP since 2019.
- Drilling has defined more than 3km of continuous calc-potassic alteration with Au-Cu mineralisation from Kaiser to Boda 2-3, up to 700m width.
- Potassic pyrite zone (gold rich) occurs on the east and northeast flanks of the calc-potassic core.
- Phyllic alteration overprints the northeast shoulder of Boda.
- Imbricated west dipping thrusts dislocate the porphyry district.
- Late NE faulting further dislocates.



Boda Geology and Mineralisation

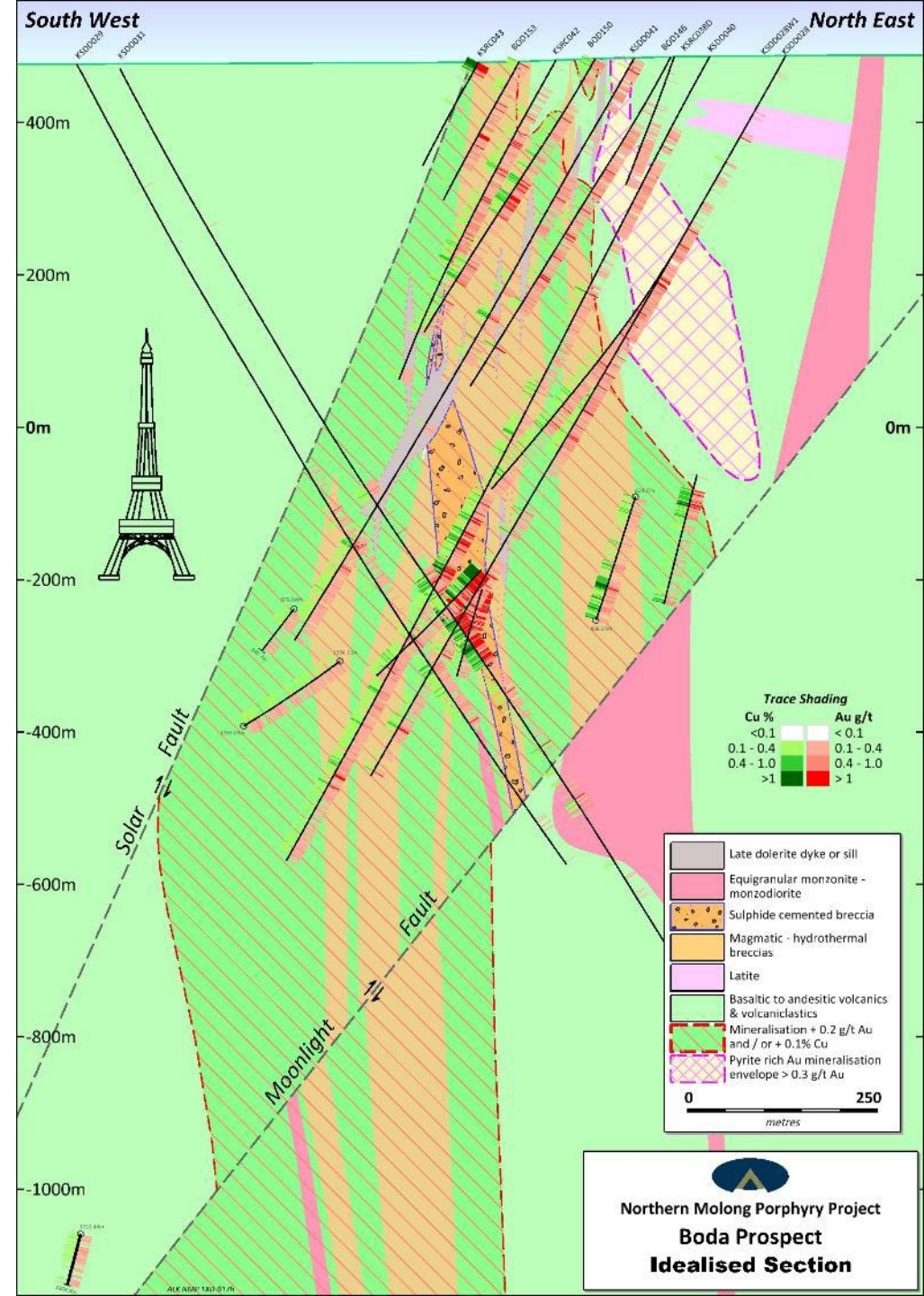
Selected Intercepts in Section (*9, 10 and 11)

KSDD028	832m grading 0.38g/t Au, 0.17% Cu from 256m
incl	266m grading 0.66g/t Au, 0.36% Cu from 764m
incl	65m grading 1.98g/t Au, 1.13% Cu from 799m
incl	25m grading 4.43g/t Au, 2.59% Cu from 838m
KSDD031	383.2m grading 0.80g/t Au, 0.31% Cu from 775m
and	204m grading 1.40g/t Au, 0.51% Cu from 776m
incl	101m grading 2.47g/t Au, 0.83% Cu from 824m
incl	70m grading 3.04g/t Au, 0.92% Cu from 829m
KSDD040	155m grading 0.26g/t Au from 110m
and	848m grading 0.29g/t Au, 0.17% Cu from 337m
incl	103m grading 0.77g/t Au, 0.41% Cu from 671m
incl	19m grading 1.36g/t Au, 0.51% Cu from 701m
also	14m grading 1.42g/t Au, 1.03% Cu from 753m
KSRC043	31m grading 2.94g/t Au, 0.97% Cu from surface
incl	9m grading 9.43g/t Au, 2.65% Cu, 8g/t Ag from surface

Selected Intercepts in 45° Section (discovery)

KSDD007 ^(*12)	1,167m @ 0.55g/t gold, 0.25% copper from 75m
incl	512m @ 1.00g/t gold, 0.44% copper from 688m
incl	376m @ 1.30g/t gold, 0.56% copper from 768m
incl	96.8m @ 3.97g/t gold, 1.52% copper from 768m

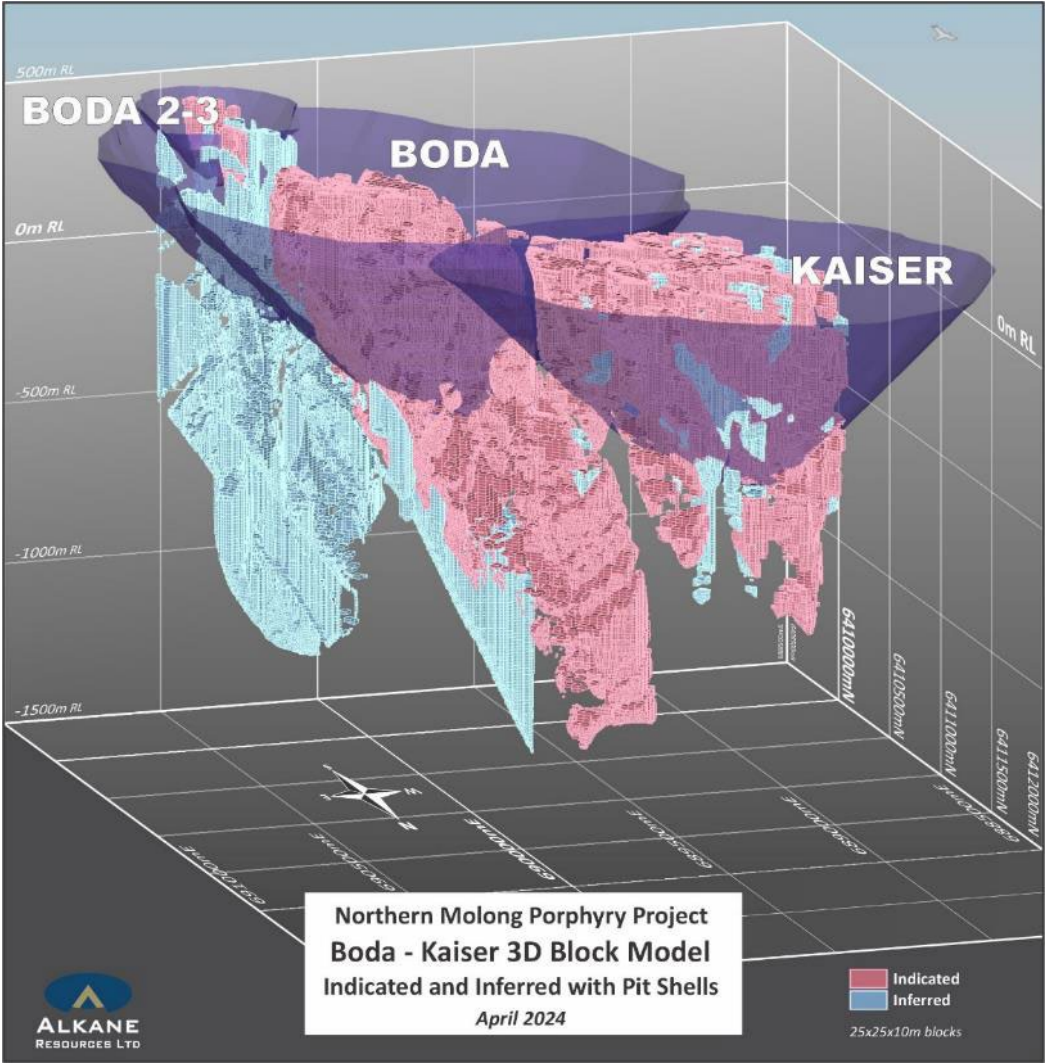
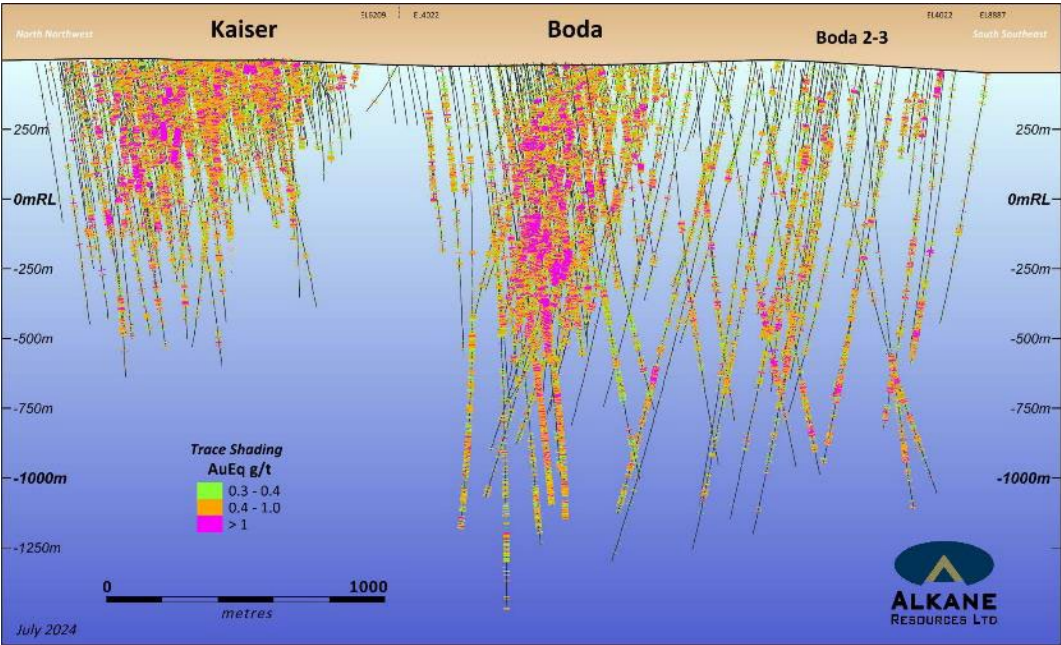
Mineralisation dominantly pyrite, chalcopyrite and bornite



Boda-Kaiser Indicated and Inferred Resources^(*4)



DEPOSIT	INDICATED			INFERRED			TOTAL				METAL		
	Tonnes	Au	Cu	Tonnes	Au	Cu	Tonnes	AuEq*	Au	Cu	AuEq*	Au	Cu
	(Mt)	(g/t)	(%)	(Mt)	(g/t)	(%)	(Mt)	(g/t)	(g/t)	(%)	(Moz)	(Moz)	(Mt)
Open Pittable Resource (cut-off 0.3g/t AuEq)													
Boda	191	0.36	0.17	42	0.29	0.16	233	0.58	0.35	0.17	4.31	2.60	0.39
Kaiser	179	0.27	0.20	10	0.29	0.14	189	0.54	0.27	0.19	3.28	1.66	0.37
Subtotal	370	0.32	0.18	52	0.29	0.16	422	0.56	0.31	0.18	7.59	4.26	0.76
Underground Resource (cut-off 0.4g/t AuEq)													
Boda	151	0.34	0.20	198	0.34	0.18	350	0.59	0.34	0.18	6.63	3.78	0.65
Kaiser	16	0.30	0.22	8	0.36	0.20	24	0.61	0.32	0.21	0.46	0.24	0.05
Subtotal	167	0.34	0.20	206	0.34	0.18	374	0.59	0.34	0.18	7.09	4.02	0.70
TOTAL	537	0.32	0.19	258	0.33	0.18	796	0.58	0.33	0.18	14.7	8.28	1.46

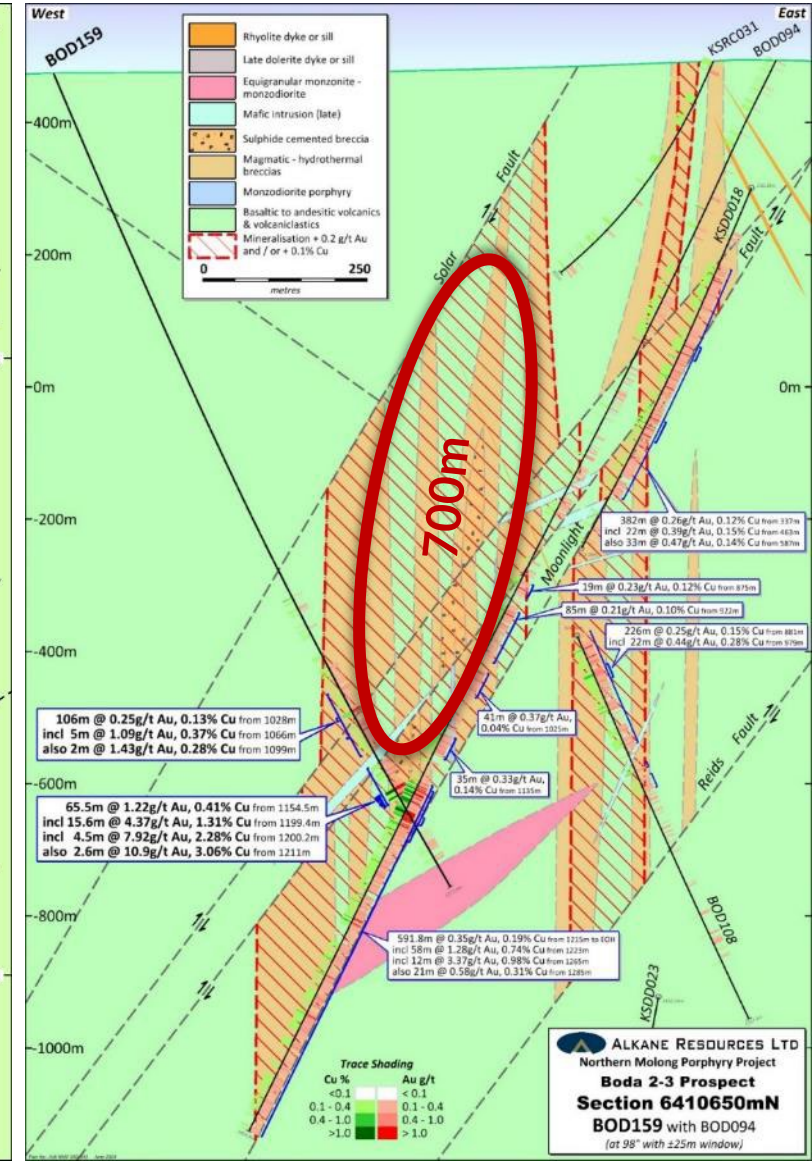
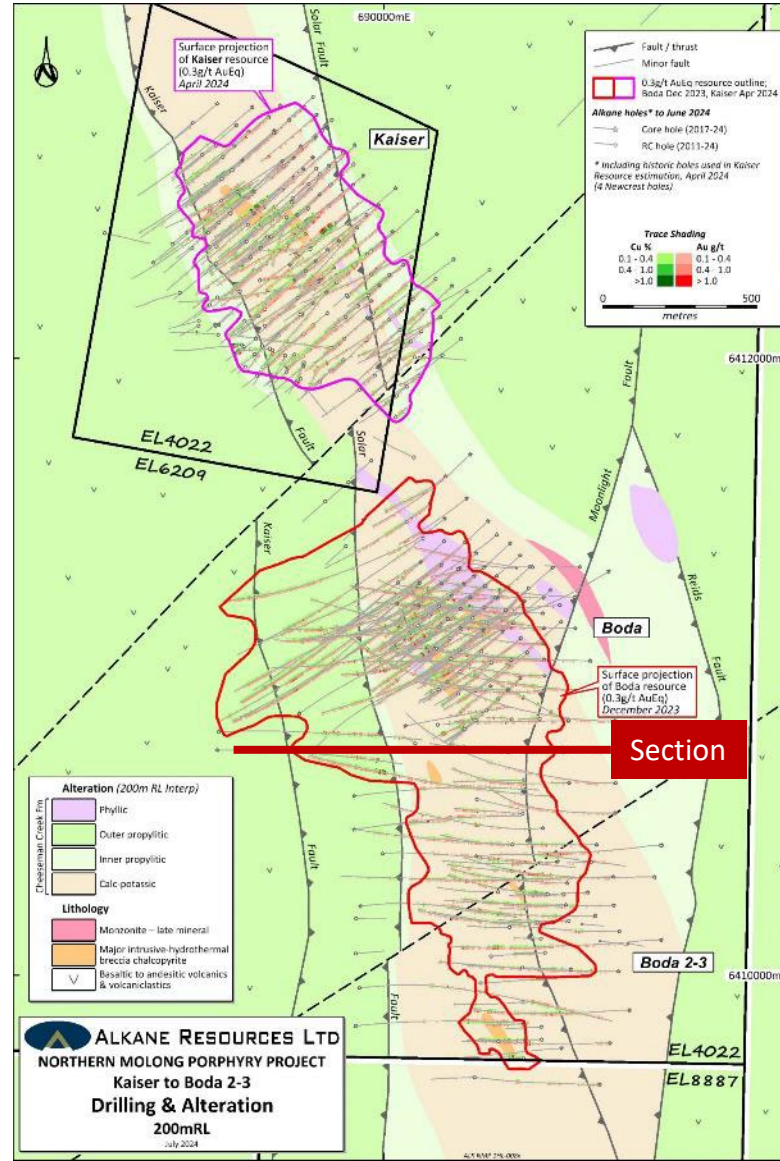


^{*4}ASX Release 14 December 2023 & 29 April 2024. The equivalent calculation formula is AuEq(g/t) = Au(g/t) + Cu%/100*31.1035*copper price (\$/t)/gold price(\$/oz). 12-month average metal prices were used of US\$1,950/oz gold and US\$8,600/t copper, and A\$:US\$0.67. Recoveries are estimated at 87% for Cu and 81% for Au for Boda, and at 81% Cu and 71% Au for Kaiser from metallurgical studies.

Boda 2-3 Deposit and High Grade Target



- Boda 2-3 is classified as 10% Indicated and 90% Inferred
- BOD159 (*6) intercepted a chalcopyrite-cemented breccia of 65.5m @ 1.22g/t Au, 0.41% Cu from 1154.5m including 15.6m @ 4.37g/t Au, 1.31% Cu and is positioned outside the Boda MRE. Earlier BOD094 returned a similar intercept.
- 3 major imbricate reverse faults dislocate the deposit thrusting deeper parts of the system over shallow and more preserved sections to the east.
- Core drilling is scheduled for later 2024 to test this zone up-dip and along strike.



NMPP District Exploration

Porphyry clusters at all (alteration) levels (*6)

Haddington

4022RA138 - 2m @ 2.9g/t Au, 0.51% Cu from 4m

NKRC3 - 18m @ 0.95g/t Au, 0.15% Cu from 64m, incl 2m @ 5.7g/t Au, 0.44% Cu

Glen Hollow

COMRC009 - 45m grading 0.87g/t Au, 0.24% Cu from 60m including 21m grading 1.51g/t Au, 0.41% Cu from 84m.

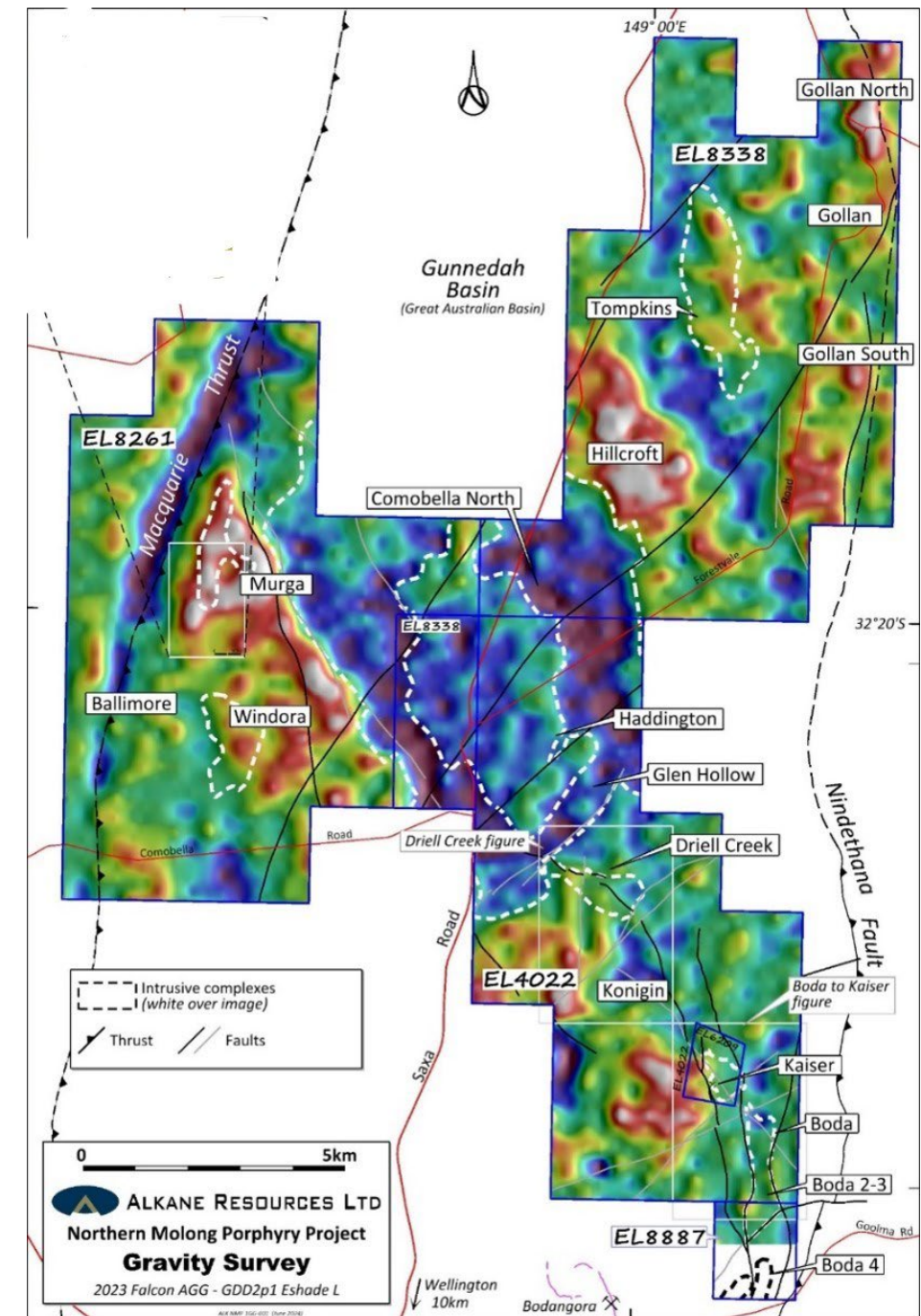
Driell Creek

DRC004 - 130m grading 0.25g/t Au, 0.11% Cu from 174m to end of hole.

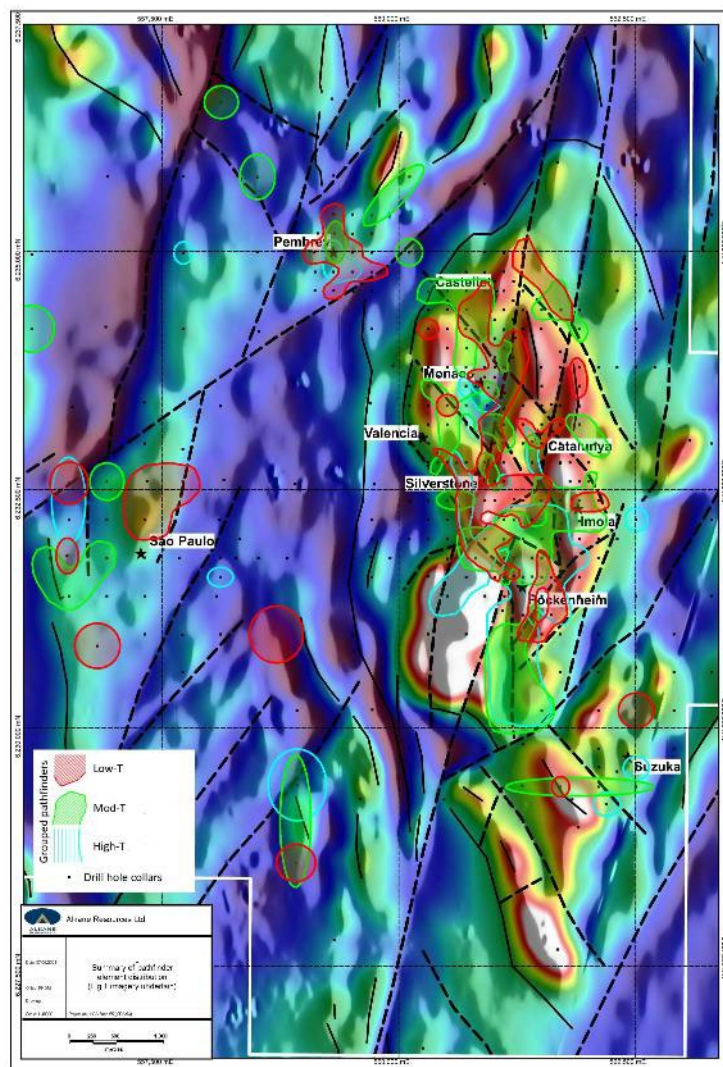
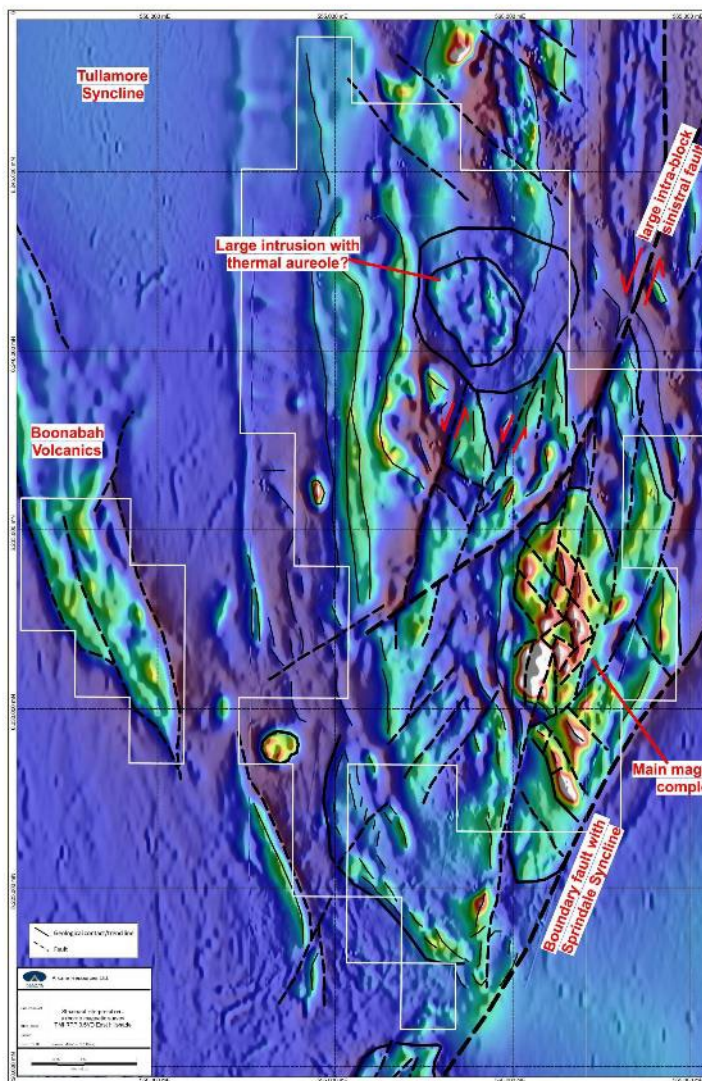
DRC010 - 47.7m grading 0.12g/t Au, 0.15% Cu from 279.3m

incl	7m grading 0.34g/t Au, 0.26% Cu from 320m
and	2m grading 0.12g/t Au, 0.19% Cu from 333m
and	54m grading 0.17g/t Au, 0.04% Cu from 463m
and	5m grading 0.16g/t Au, 0.11% Cu from 539m

Follow up AC, RC and DD to commence before end of 2024



South Junee Porphyry Project



Acquired by Alkane in May 2023.

Work completed by Alkane includes review of magnetic, gravity and lithgeochem data from recon drilling.

New airborne gravity survey to assist target definition.

Existing drill results include: (*7)

Imola

CBD01	110m @ 0.64g/t Au, 0.01% Cu from 139m
incl	6m @ 1.74g/t Au, 0.01% Cu from 141m
also	34m @ 1.14g/t Au, 0.01% Cu from 197m
CBD17	16m @ 1.71g/t Au, 0.04% Cu from 276m
incl	3m @ 6.80g/t Au, 0.04% Cu from 289m

Silverstone and Catalunya

CBD08	74m @ 0.15% Cu, 0.02g/t Au from 226m
incl	6m @ 0.39% Cu, 0.03g/t Au from 226m
also	3m @ 0.71% Cu, 0.08g/t Au from 297m
CBD09	50m @ 0.15% Cu, 0.04g/t Au from 282m
incl	9m @ 0.35% Cu, 0.05g/t Au from 323m



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Tomingley Resources and Reserves (FY24)



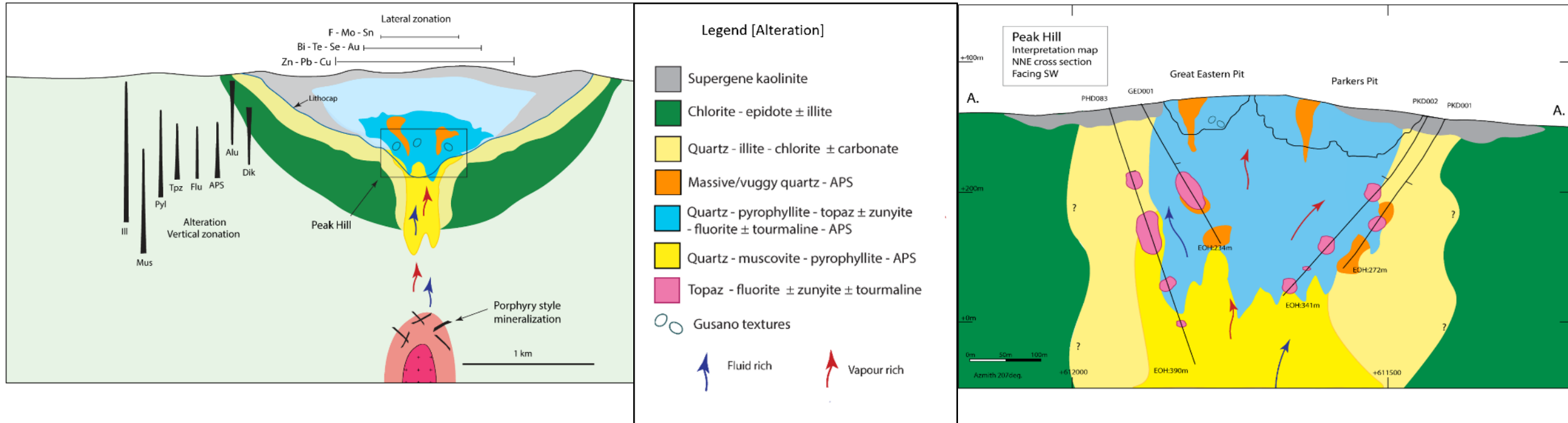
TOMINGLEY GOLD OPERATION MINERAL RESOURCES (as at 30 June 2024)									
DEPOSIT	MEASURED		INDICATED		INFERRED		TOTAL		Total Gold (Koz)
	Tonnage (Kt)	Grade (g/t Au)	Tonnage (Kt)	Grade (g/t Au)	Tonnage (Kt)	Grade (g/t Au)	Tonnage (Kt)	Grade (g/t Au)	
Open Pittable Resources (cut off 0.40g/t Au)									
Caloma One	0	0.0	0	0.0	0	0.0	0	0.0	0
Sub Total	0	0.0	0	0.0	0	0.0	0	0.0	0
Underground Resources (cut off 1.3g/t Au)									
Wyoming One	1013	2.7	763	2.2	108	2.1	1,884	2.5	149
Wyoming Three	46	2.2	24	2.0	20	1.9	90	2.1	6
Caloma One	602	2.2	916	2.0	469	2.0	1,987	2.1	132
Caloma Two	351	2.4	1261	2.4	462	1.8	2,074	2.3	153
Sub Total	2,012	2.5	2,964	2.2	1,059	1.9	6,035	2.3	441
TOTAL	2,012	2.5	2,964	2.2	1,059	1.9	6,035	2.3	441

TOMINGLEY GOLD EXTENSION PROJECT MINERAL RESOURCES (as at 30 June 2024)									
DEPOSIT	MEASURED		INDICATED		INFERRED		TOTAL		Total Gold (Koz)
	Tonnage (Kt)	Grade (g/t Au)	Tonnage (Kt)	Grade (g/t Au)	Tonnage (Kt)	Grade (g/t Au)	Tonnage (Kt)	Grade (g/t Au)	
Total Resources (cut off 0.4g/t Au Roswell and 0.5g/t Au San Antonio)									
Roswell			3,900	1.7	0	0.0	3,900	1.7	213
San Antonio			5,930	1.8	1,389	1.3	7,319	1.7	406
Sub Total	0	0.0	9,830	1.8	1,389	1.3	11,219	1.7	619
Underground Resources (cut off 1.3 g/t Au and 1.3g/t Au McLeans)									
Roswell	825	3.0	3,123	2.8	1,957	2.5	5,905	2.7	517
McLeans			0	0.0	870	2.5	870	2.5	70
Sub Total	825	3.0	3,123	2.8	2,827	2.5	6,775	2.7	587
TOTAL	825	3.0	12,953	2.0	4,216	2.1	17,994	2.1	1,206

TOMINGLEY GOLD OPERATION ORE RESERVES (as at 30 June 2024)							
DEPOSIT	PROVED		PROBABLE		TOTAL		Total Gold
	Tonnage (Kt)	Grade (g/t Au)	Tonnage (Kt)	Grade (g/t Au)	Tonnage (Kt)	Grade (g/t Au)	(Koz)
Open Pittable Reserves (cut off 0.40g/t Au)							
Stockpiles	241	1.1	0	0	241	1.1	9
Sub Total	241	1.1	0	0.0	241	1.1	9
Underground Reserves (cut off 1.3g/t Au)							
Wyoming One	87	1.9	105	1.7	192	1.8	11
Caloma One	86	1.8	105	1.8	190	1.8	11
Caloma Two	48	1.8	3	1.2	50	1.8	3
Sub Total	220	1.8	213	1.8	433	1.8	25
TOTAL	461	1.5	213	1.8	674	1.6	34

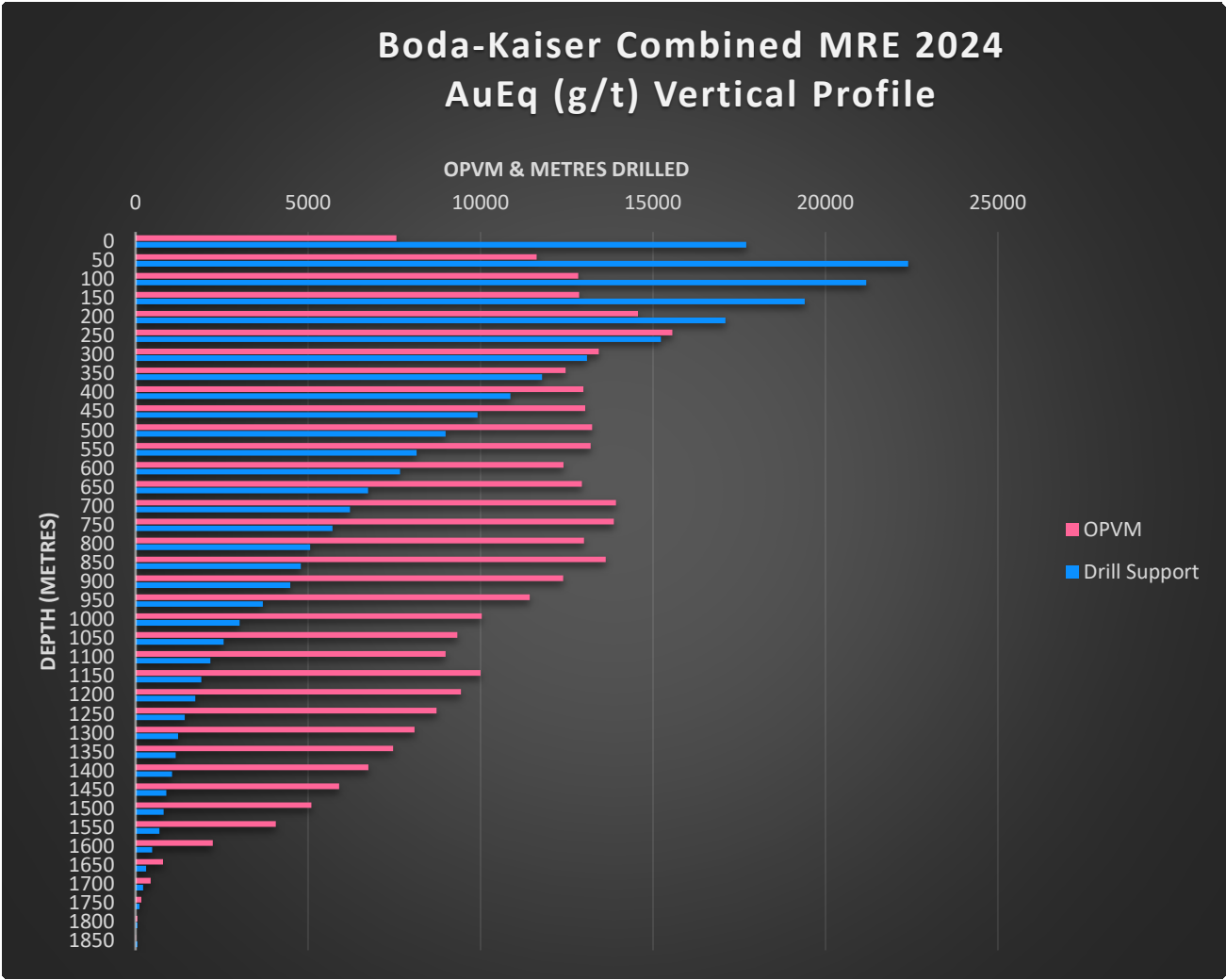
TOMINGLEY GOLD EXTENSION PROJECT ORE RESERVES (as at 30 June 2024)							
DEPOSIT	PROVED		PROBABLE		TOTAL		Total Gold
	Tonnage (Kt)	Grade (g/t Au)	Tonnage (Kt)	Grade (g/t Au)	Tonnage (Kt)	Grade (g/t Au)	(Koz)
Open Pittable Reserves (cut off 0.40g/t Au)							
Roswell	0	0.0	3,900	1.7	3,900	1.7	213
San Antonio	0	0.0	4,100	1.6	4,100	1.6	214
Sub Total	0		8,000	1.6	8,000	1.6	427
Underground Reserves (cut off 1.6g/t Au)							
Roswell	881	2.4	2,202	2.4	3,082	2.4	236
San Antonio*	0	0.0	0	0.0	0	0.0	0
Sub Total	881	2.4	2,202	2.4	3,082	2.4	236
TOTAL	881	2.4	10,202	1.8	11,082	1.9	663

*San Antonio Reserves not determined at this time.



Super heated fluids and gases rise through fractures from intruding magma, react with wall rocks and cool. Resultant minerals highlight fluid outflow areas and vector to porphyry source.

Boda – Kaiser Ounces per Vertical Metre



**De Grey Mining
Hemi Project OVM**

Gold endowment from large scale open pit mining underpins short payback period

Deposit	Oz/Vm (<370m)
Brolga	6,700 including 10,700 above 200m
Aquila	2,450
Crow	3,100
Falcon	3,800
Diucon	4,700
Eagle	2,800
TOTAL	23,550

Only open pit resources within 370m of surface reported

DEG Hemi Gold Project Mineral Resource Estimate 2024 ASX 14 Nov 2024