

Unity Applies for 14 Copper and Gold Licences in Northern Thailand

Key Points:

- **Applications for 14 Special Prospecting Licences (SPL's) covering 193.3km² submitted** in the Loei Fold Belt in northern Thailand (Loei Copper Gold Project or Loei Project).
- The Loei Fold Belt (LFB) is **highly prospective for large copper and gold deposits**. Rio Tinto is exploring the LFB immediately across the country border in neighbouring Laos.
- No systematic exploration has been conducted within Unity's application area for nearly 30 years and it **remains under-explored**.
- The Loei Copper Gold Project **directly surrounds the largest copper deposit in Thailand** (PUT 1) where a Measured, Indicated and Inferred Mineral Resource of **164.4Mt at 0.53% copper, 0.1g/t gold¹ for 864Kt copper and 503Koz gold** was delineated by PanAust Limited (formerly ASX:PNA) in 2009.
- The PUT1 Mineral Resource remains open to the north and lies only **650m south** of the Loei Project area. Unity believes the diorite intrusions that host the Mineral Resource may extend to the north into the Loei Project for approximately **2.2km**.
- **Numerous copper and gold occurrences and stream sediment copper anomalies** are well documented throughout the Loei Project area.
- At least **five highly prospective and poorly explored, deep-seated, magnetic anomalies**, similar to those associated with the **dioritic intrusive complex**, that hosts the PUT 1 copper deposit, have been identified within the Loei Project area.
- These magnetic anomalies, along with the possible northern strike extension to PUT 1, will be the focus for Unity's initial exploration.

Unity's Managing Director, Craig Mackay said: "Unity's goal is to build a Southeast Asian focussed gold and copper company. Whilst progressing its gold and copper-gold projects in Cambodia prior to the planned listing of Unity on the ASX, the Unity team has continued to look in neighbouring countries for strategic opportunities."

"The copper and gold prospectivity of the Loei Province in northern Thailand has long been recognised but the record of mining of metallic minerals in Thailand, especially by foreign companies, has been rather poor in recent years."

"Encouraged by the re-opening of the >5Moz² Chatree Gold mine, the largest gold mine in Thailand, by Kingsgate Consolidated Limited (ASX:KCN) in 2024, Unity began investigating the commercial environment within Thailand."

"Under the new Prime Minister Paetongtarn Shinawatra there is a push to diversify and expand the economy of Thailand and mining was identified as an industry that could help Thailand achieve these

¹ Puthep Company Limited, 2012. Puthep Copper Project Information Memorandum.

² Kingsgate Presentation 30 October 2024: Measured, Indicated and Inferred Mineral Resources as of 30 June 2024 of 156.7Mt at 0.66g/t gold (3.3Moz gold) + 1.8Moz produced 2002 – 2016 to provide approximate total gold inventory.

goals. Unity believes now is the time to secure prime exploration ground that has been largely vacated by competitors over the past decade. Unity, through its licence applications when granted, will hold a major position in this highly prospective region.”

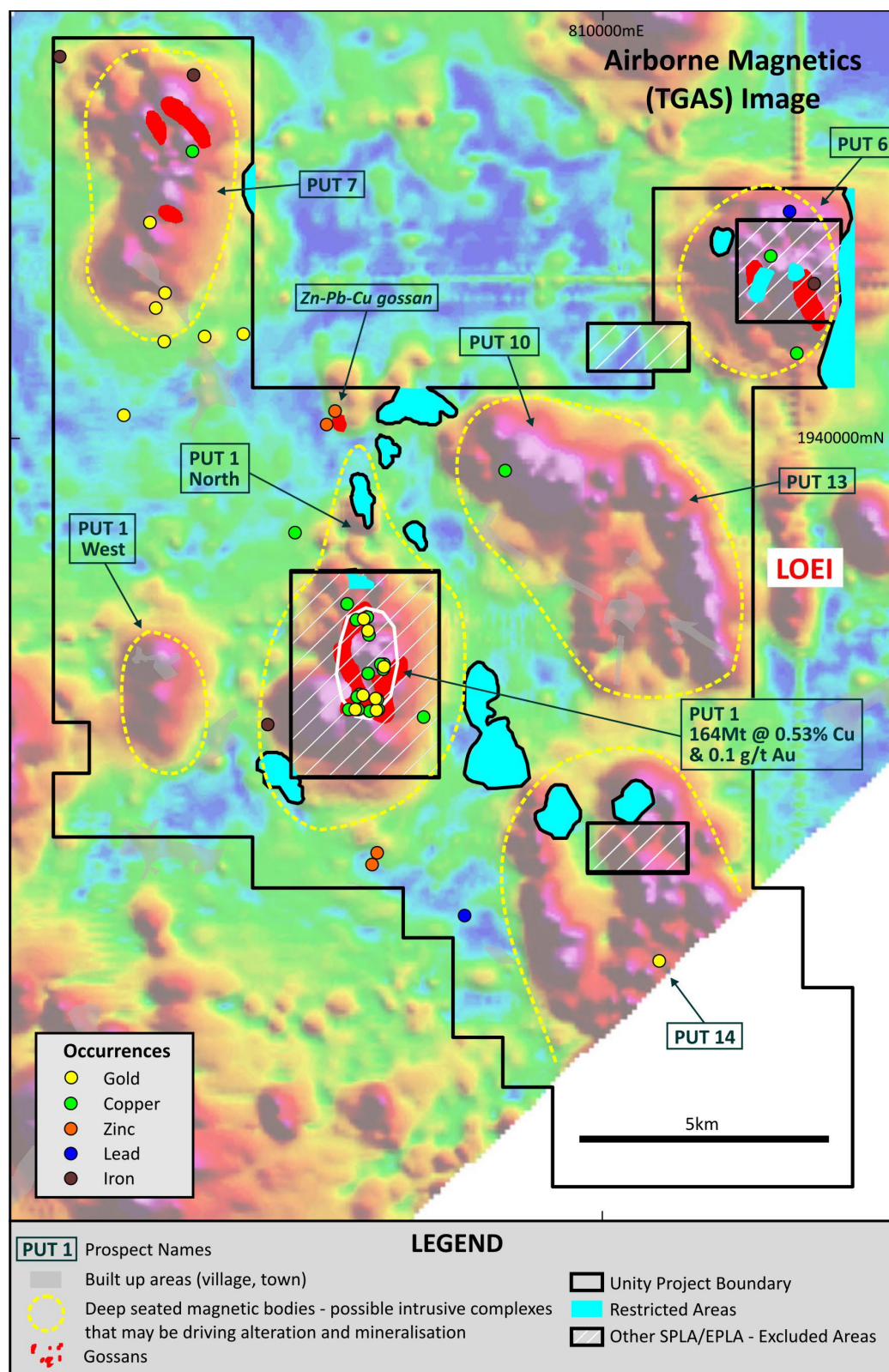


Figure 1. Location of Unity’s Loei Copper Gold Project in northern Thailand with copper and gold occurrences anomalies over an airborne magnetic image (Total Gradient/Analytical Signal transform of the Total Magnetic Intensity).

Unity Energy & Resources (“Unity”, or the “Company”) is pleased to announce that the Company through its new 100% owned Thai subsidiary, Unity Minerals (Thailand) Co., Ltd. has submitted 14 Special Prospecting Licence (SPL) applications covering an area of approximately 193.3km² of the Loei Fold Belt in Northern Thailand. The maximum size for an SPL in Thailand is 16km². Collectively the new licences applications are known as the **Loei Copper Gold Project or Loei Project**.

Unity has appointed highly respected Thai geologist, Surapol Udompornwirat, as a director of Unity Minerals (Thailand) Co., Ltd. Mr Udompornwirat has more than 40 years’ experience and is currently the Vice President and Secretary-General of the Mining Industry Council of Thailand. Previously he was Co-Managing Director of Metal Tiger Exploration Co., Ltd. a Thai subsidiary of Metal Tiger Plc (listed on the London Stock Exchange) and also Executive Vice President of Akara Mining Limited, a subsidiary of Kingsgate Consolidated Limited (listed on the Australian Securities Exchange).



Figure 2. Location of Unity's Loei Copper Gold Project in northern Thailand and Unity's gold and copper-gold projects in Cambodia.

Location, Access and Infrastructure

The Loei Copper Gold Project is located 400km northeast of Thailand's capital city, Bangkok, and 8km east of the provincial capital, the city of Loei, in the Loei Province. Access to the city of Loei, from Bangkok is either by an 8hr road trip via route 201 or by a 1-hour commercial flight to Loei airport. The population of the city of Loei is over 21,000 and the city boasts all amenities and services expected from a city of this size.

Whilst Loei is one of the more sparsely populated provinces of Thailand, the applications lie in an area of excellent access and infrastructure. Sealed good quality roads afford access to all of Unity's project area.

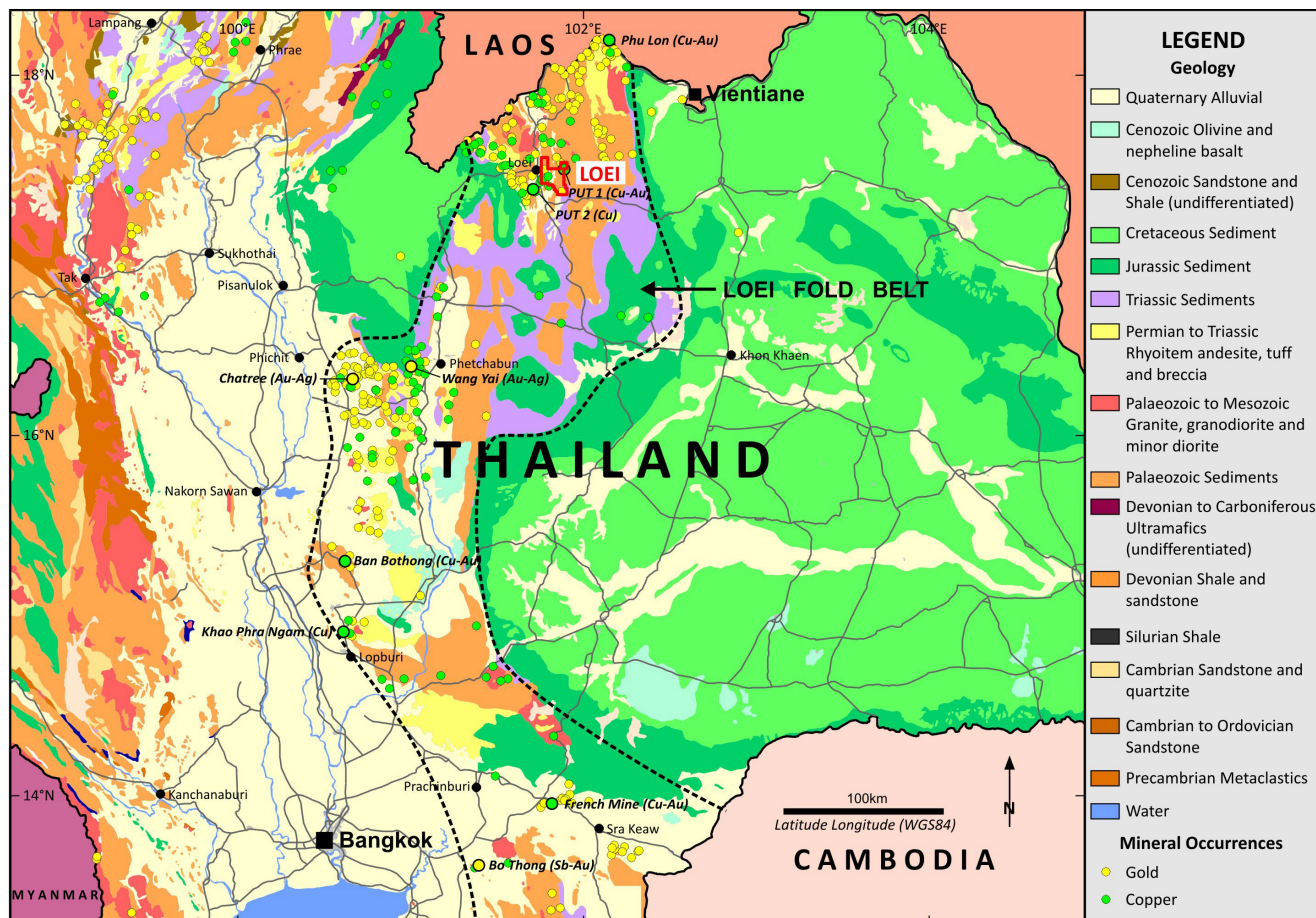


Figure 3. Geology of Central Thailand from 1:1,000,000 digital dataset showing location of Unity's Loei Copper-Gold Project within the Loei Fold Belt in northern Thailand.

Regional Geology and Mineralisation

The Loei Fold Belt (LFB) is the major copper-gold metallogenic and magmatic belt in the mainland Southeast Asia and has a history of mining stretching back into ancient times. It extends across western and northern Cambodia, up through central Thailand and into northwestern Laos. The LFB principally consists of continental margin volcano-plutonic suites, and these rocks are closely associated with copper-gold mineralisation (Figures 2 and 3).

Significant gold and copper deposits within the LFB include:

- Kingsgate Consolidated (ASX:KCN) operates the low sulphidation, epithermal gold-silver Chatree Mine (Measured, Indicated and Inferred Mineral Resource of **175.4Mt at 0.68 g/t gold and 5.5 g/t silver for 3.82 Moz gold and 31.4 Moz silver**³ as at December 2024, in addition to the **1.8Moz gold and 10Moz silver** already produced from 2001 – 2016⁴. The mine is Thailand's largest gold mine and was subject to a dispute with the previous military junta, that governed Thailand following the 2014 Thai coup d'état, and which resulted in the mine being placed on care and maintenance in 2017⁵. Following a successful international arbitration settlement and the election of a pro-mining, democratic government in May 2023 in the first general elections held since coup d'état, Kingsgate were able to re-open the mine in 2024. Chatree is about 150km south of Loei city.
- Phu Bia in Laos, is a major mining centre of copper - gold mineralisation in the LFB located 200km northeast of Loei city and is owned by PanAust. Formerly listed on the ASX, PanAust was acquired by China's Guangdong Rising Assets Management (GRAM) for A\$1.2 billion in 2015. Deposits at Phu Bia include⁶:
 - Phu Kham: Measured, Indicated and Inferred Mineral Resource of **204Mt at 0.49% copper, 0.22g/t gold and 2.0g/t silver**.
 - KTZ: Measured, Indicated and Inferred Mineral Resource of **19Mt at 0.94% copper, 0.41g/t gold and 3.7g/t silver**.
 - Ban Houayxai: Measured, Indicated and Inferred Mineral Resource of **64Mt at 0.90g/t gold and 7.1g/t silver**.
 - Long Chieng Track: Measured, Indicated and Inferred Resource of **31Mt at 0.08% copper, 0.76g/t gold and 3.9g/t silver**.
- PUT 2 is the second largest known copper deposit in Thailand and it is located 6km southwest of the Loei Project. PUT 2 is a porphyry-related copper-gold deposit largely comprised of oxide-supergene copper mineralisation associated with stockwork veins within granodiorite/diorite intrusions. An Inferred Mineral Resource of **36.5Mt at 0.42% copper** for PUT 2 was reported by PanAust⁷ in 2009.
- The Phu Thap Fah gold skarn deposit lies 10km to the southwest of Unity's Loei Project. The deposit is hosted in a Triassic granodiorite body that intruded the Carboniferous or Permian sediments. It contains Measured and Indicated Mineral Resources of **0.4Mt at 3.54g/t gold and 0.7Mt at 7.97g/t gold** respectively⁸.
- In recent years, several exploration companies have been actively exploring the LFB in Laos, just north of the border with Thailand and they are reporting discoveries of broad zones of copper-gold mineralisation. Rio Tinto has recently re-entered and established an office in Laos.

³ Kingsgate Consolidated Announcement, 19 December 2024. Mineral Resource and Ore Reserves Statement for Chatree Gold Mine including A-Pit Area – December 2024.

⁴ Kingsgate Presentation 30 October 2024.

⁵ Minerals Council of Australia February 2020: ASEAN New Frontiers: South and East Asia.

⁶ PanAust ASX Announcement 27 May 2014: PanAust 2013 Annual Review.

⁷ Puthep Company Limited 2012: Puthep Copper Project Information Memorandum.

⁸ Rodmanee T. 2000: Genetic Model of Phu Thab Fah Gold Deposit, MSc – Geology thesis, Chiang Mai University.

Initially they entered into a joint venture with Annamite Resources at their Sokdee Project in the LFB and completed several deep diamond drill holes⁹.

Puthep Exploration History

Thailand's Department of Mineral Resources (DMR) in conjunction with the United Nations carried out limited diamond drilling in the late 1960's and early 1970's on the PUT 1 and PUT 2 copper deposits (Figure 3).

During the 1980's the DMR carried out regional exploration in the Loei area. Exploration included airborne geophysics (funded by the Canadian Government and carried out by Kentings), surface geochemistry (soil and stream sediment surveys) and geological mapping.

Subsequently, the DMR conducted a tender process on areas prospective for copper and gold in 1989 and awarded the Puthep area to Padaeng Industry Public Company Limited (Padaeng).

Padaeng entered into an agreement in 1991 with Sumitomo Limited's geological consulting arm, Sumiko Consultants Company Limited (Sumiko) to undertake exploration. During 1992 – 1994 Sumiko conducted geological mapping, rock chip sampling, surface geochemical soil (ridge and spur and grid) and stream sediment surveys, and gradient array and dipole-dipole IP surveys. Diamond drilling was carried on the PUT 1 and PUT 2 prospects.

Padaeng then entered into a Joint Venture agreement with Phelps Dodge in mid-1994. During 1994 – 1996 Phelps Dodge completed diamond drilling and reverse circulation drilling on the PUT 1 and PUT 2 copper deposits and also completed very limited drilling on the PUT 7, PUT 10 and PUT 14 prospects (Figure 1). Ground magnetic surveys were completed at PUT 1, PUT 6, PUT 7, PUT 10 and PUT 14. A limited BLEG and stream sediment sampling programme was completed in the area surrounding PUT 1¹⁰. No systematic exploration has been undertaken in the Puthep area outside PUT 1 since 1996.

Finally, Padaeng entered into a Joint Venture with Pan Australian Resources (Pan Aust) in 1999 to conduct a feasibility study on PUT 1. Pan Aust completed the feasibility study in 2009 and decided not to proceed with development¹¹. With a problematic joint venture arrangement where Pan Aust remained the minority partner (49%)¹² and following an unsuccessful sales process Pan Aust withdrew in 2013¹³. No additional work has been conducted on PUT 1 since 2009.

Known Mineralisation Directly Adjacent to/or Within the Unity's Loei Project Area

PUT 1 Copper-Gold Deposit

The PUT 1 copper – gold deposit is located about 20km to the east of Loei city and is directly surrounded by Unity's Loei Project. The northern extent of the PUT 1 deposit is only 650m south of the Loei Project boundary.

⁹ Annamite Resources website: www.annamite-resources.com/sokdee-project

¹⁰ Loei Technical Services 2008: Puthep Copper Project – Review of Exploration Potential Northern Loei Fold Belt.

¹¹ Puthep Company Limited 2012: Puthep Copper Project Information Memorandum.

¹² Brost, D. 2025: ex-Pan Aust General Manager Geology, pers. comm.

¹³ PanAust ASX Announcement 27 May 2014: PanAust 2013 Annual Review

PUT 1 is a porphyry-style mineralisation system, consisting of a quartz diorite intrusive suite within a sequence of sedimentary rocks. It is presently the largest known copper deposit in Thailand¹⁴.

The copper mineralisation at PUT 1 is contained within a near surface blanket of chalcocite transitional mineralisation; in sediment-hosted skarn primary mineralisation; and as stockwork disseminated primary mineralisation within the intrusive rocks. The mineralisation at the PUT 1 deposit extends for a strike length of over 3km and a width of up to 1km.

In 2009, Pan Aust released a Measured, Indicated and Inferred Mineral Resource of **164.4Mt at 0.53% copper, 0.1g/t gold**¹⁵ (0.3% copper cut-off grade), based on drilling data from 261 holes, largely diamond core (Table 1).

This resource remains open to the north and west and at depth (below 400m). A potentially significant epithermal gold-silver overprint has been identified but remains poorly defined.

Table 1. Puthep Copper Project Mineral Resource Estimate (JORC)¹⁶

Deposit	Measured			Indicated			Inferred			Total			Cu	Au
	Mt	% Cu	g/t Au	Mt	% Cu	g/t Au	Mt	% Cu	g/t Au	Mt	% Cu	g/t Au	kt	koz
PUT1	41.1	0.59	0.08	64.1	0.51	0.10	59.2	0.50	0.10	164.4	0.53	0.10	864	503
PUT2	-	-	-	-	-	-	36.5	0.42	-	36.5	0.42	-	152	-
Total	41.1	0.59	0.08	64.1	0.51	0.10	95.7	0.47	-	200.9	0.51	0.08	1,016	503

Note: Cut-off for PUT-1 is 0.3% copper and for PUT-2 is 0.1% copper

Source Puthep Company

Copper and Gold Occurrences

Numerous copper and gold occurrences are scattered throughout the Loei Project area (Figure 1). Most of the known mineralisation, including stream sediment anomalies, were identified during exploration conducted by the United Nations between 1963 to 1966 involving geological prospecting, pitting, trenching and exploratory drilling. Some of the occurrences show evidence of been worked in ancient times, with oxide copper ores being extracted from shallow surface workings.

Other commodities of interest with occurrences within the application areas include silver, lead, zinc, tin and tungsten.

Exploration Potential and Planned Exploration

Unity has been able to acquire and re-process Thailand Government airborne magnetic data (400m line spacing, 50m flight height) and radiometric data (2km line spacing, 122m flight height) that was collected in 1984 – 1985 over the Loei Project area.

The magnetic data highlights a discrete magnetic high anomaly associated with the PUT 1 copper-gold deposit (Figure 1). This anomaly is interpreted to be deep-seated intrusive centre that is driving the alteration and the copper – gold mineralisation.

¹⁴ PanAust ASX Announcement 3 July 2007: Drilling identifies new broad zone of copper-gold mineralization at the Puthep Copper Project, Thailand.

¹⁵ PanAust ASX Announcement 28 July 2008: Puthep Copper Project, Thailand Pre-Feasibility Study Mineral Resource Estimate.

¹⁶ Puthep Company Limited 2012: Puthep Copper Project Information Memorandum.

Unity has identified at least five additional look alike magnetic anomalies (PUT 1 West, PUT 6, PUT 7, PUT 10/13 and PUT 14) with coincident potassium high anomalies (possibly related to potassic porphyry-related alteration) within the Loei Project area. Some of these anomalies are associated with copper and gold anomalism. These five target areas have been subject to limited historical exploration and will be focal points for the Company's initial exploration.

Each of these features could host supergene mineralisation sitting atop primary mineralisation. If present, the shallow, near surface mineralisation will be largely horizontal in nature and may have little or no surface expression. Drilling at shallow to moderate depths will be able to test this material, whereas deeper diamond drilling guided by geophysics, such as Induced Polarisation (**IP**) and Downhole Electromagnetics (**DHEM**), will test for strong primary mineralisation at depth.

In addition to these magnetic anomalies, Unity's exploration will also target potential strike extensions to the PUT 1 copper-gold deposit (Unity's PUT 1 North area). The significant copper-in-soil anomaly associated with the PUT 1 Mineral Resource extends directly into PUT 1 North¹⁷ (Figure 4). The northern portion of the PUT 1 Mineral Resource remains open and lies only 650m south of the Loei Project area. Drilling conducted by PanAust in the northern portion of the PUT 1 Mineral Resource returned broad intersections such as:

- **124m at 0.5% copper and 0.1g/t gold** from 10m, including **12m at 1.1% copper and 0.2g/t gold** from 54m; and
- **120m at 0.3% copper and 0.2g/t gold** from 48m.

Unity believes the diorite intrusions that host the PUT 1 Mineral Resource may extend north into the Loei Project (PUT 1 North). This copper-gold target area within the Loei Project comprises coincident magnetic high and potassium high anomalies extending over **2.2km** (Figure 4). These anomalies also coincide with a prominent north-south-trending topographic high.

¹⁷ Tate, N. 2007: Put 1 Deposit Review

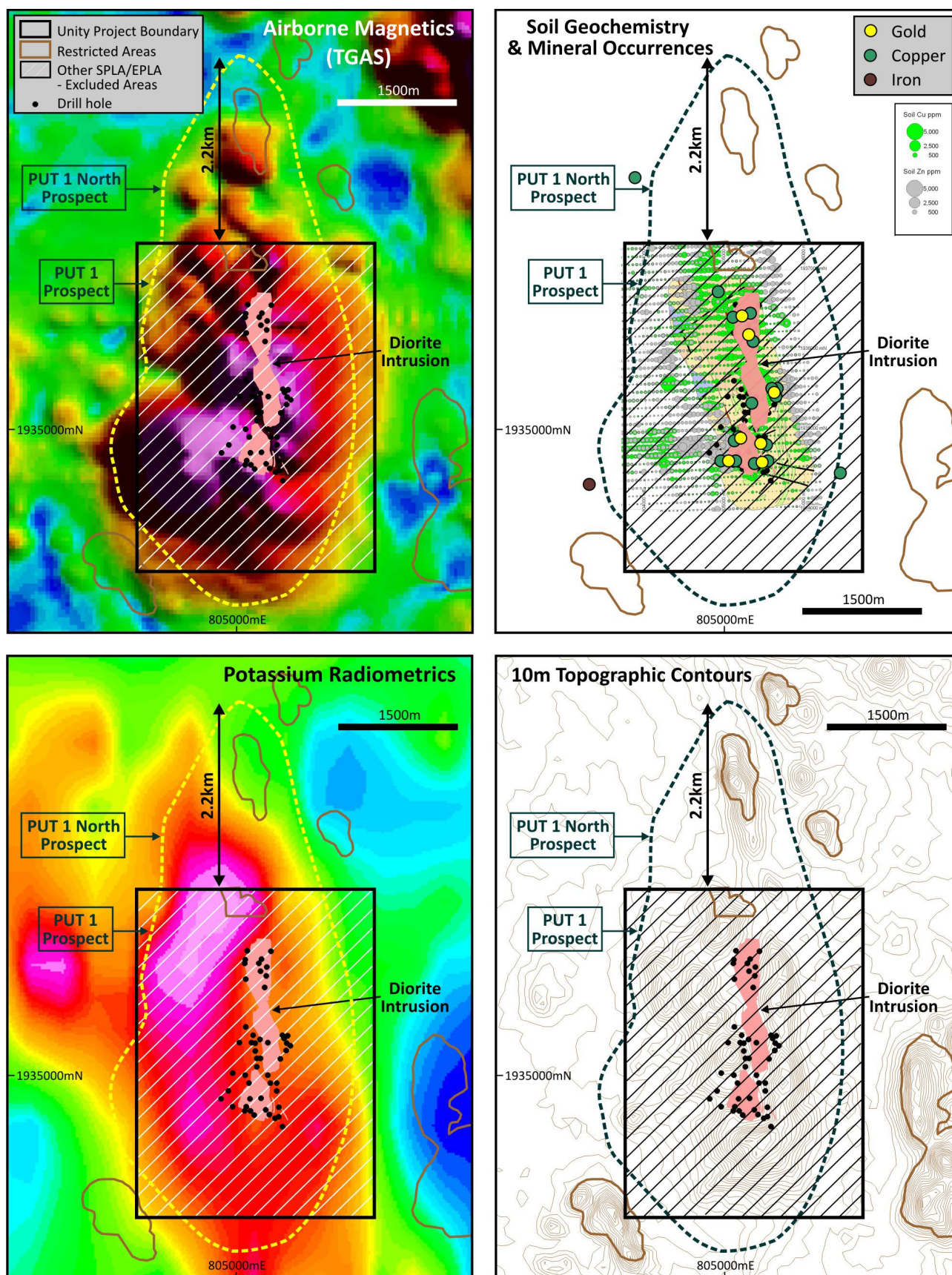


Figure 4. Potential extension to the PUT 1 copper-gold deposits into Unity's adjacent PUT 1 North area shown on Total Gradient - Analytical Signal (TGAS) magnetics, soil geochemistry and mineral occurrences, potassium (K) radiometrics and topographic contours.

Contact Details

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About Unity

Unity Energy and Resources (Singapore) Limited is an unlisted, public company that is building a portfolio of highly prospective minerals projects in Southeast Asia.

Currently the Company is focused on the discovery of “giant” intrusion-related gold (IRG) and/or porphyry copper-gold deposits in Cambodia and Thailand.

Unity is planning an IPO and to list on the ASX in Q3/CY2025.

For more information, please visit www.unitymetals.com.au

This News Release has been authorised by the Managing Director of Unity Energy & Resources (Singapore) Limited.

Competent Persons Statement

The information in this report that relates to exploration results is based on information compiled by Craig Mackay, a Competent Person, who is a Member of the Australasian Institute of Mining and Metallurgy. Mr Mackay is the Managing Director of the Company 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 Mackay consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

Forward Looking Statements

Certain statements in this document are or maybe “forward-looking statements” and represent Unity’s intentions, projections, expectations or beliefs concerning among other things, future exploration activities. The projections, estimates and beliefs contained in such forward-looking statements necessarily involve known and unknown risks, uncertainties and other factors, many of which are beyond the control of Unity, and which may cause Unity’s actual performance in future periods to differ materially from any express or implied estimates or projections. Nothing in this document is a promise or representation as to the future. Statements or assumptions in this document as to future matters may prove to be incorrect and differences may be material. Unity does not make any representation or warranty as to the accuracy of such statements or assumptions.

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