

-Kirgella Gift and Providence First Inferred Mineral Resource Estimate of 76,400 oz Au from only 3m depth



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### **Body**

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WA-focused gold explorer, Kalgoorlie Gold Mining (ASX: KAL) ('KalGold' or 'the Company'), is pleased to announce its first Inferred Mineral **Resource** Estimate (MRE, reported in accordance with the JORC Code (2012)) for the Kirgella Gift and Providence gold deposits at the Company's Pinjin project, 140 km to the northeast of Kalgoorlie-Boulder.

KalGold Managing Director and CEO Matt Painter said: 'KalGold is proud to report the first Mineral **Resource** Estimate at the Kirgella Gift and Providence gold deposits. It totals 76,000 oz defined at over 1.0 g/t Au from only 3m depth, remains open in several directions, and is considered the first step in defining the full potential of the Kirgella Gift and Providence gold deposits. Pleasingly, we have defined a shallow gold **resource** at a very low cost to the Company of around A\$ 4.20 per gold ounce. The Kirgella and Providence mineral **resource** estimate is comparable to other deposits within the Laverton Tectonic Zone and is considered typical of the region. This is particularly true of some of the constituent deposits at **Ramelius Resources**' (ASX:RMS) Rebecca Gold Project, around 20 km to the south along strike. KalGold now has defined a total **resource** base of 214,300 oz of gold. The increased **resource** base enables KalGold to commence high level mining optimisation studies to assess pathways to production. KalGold looks forward to continuing to progress its work in the Pinjin area with the aim of significantly growing this initial JORC Code (2012) **resource** and defining a suite of additional shallow **resources**.

#### Project Location and History

Kirgella Gift and Providence are located on exploration tenement E 28/2655, approximately 140 km northeast of Kalgoorlie-Boulder and within the underexplored southern end of the crustal-scale, goldmineralising Laverton Tectonic Zone (LTZ). The LTZ is host to some of the largest gold mines of the Eastern Goldfields of Western Australia. Locally, the project area lies at the southern end of the gold-rush era Pinjin Goldfield. It is strategically

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located some 12 km south of Hawthorn **Resources**' (ASX:HAW) Anglo Saxon gold deposit, and 22 km northwest of **Ramelius Resources**' (ASX:RMS) Lake Rebecca Gold Project.

The Pinjin Gold Project tenure and surrounds have been explored by numerous operators since the 1970's with an initial focus on nickel, base metals and uranium potential. Burdekin **Resources** explored the ground in the mid to late 1990's, discovering gold mineralisation at Kirgella Gift through RAB drilling while following up an earlier maglag soil anomaly. Gutnick **Resources** farmed into the project and completed additional RAB and limited RC drilling at Kirgella Gift. Newmont Exploration acquired the ground in 2005 through a farm in and Joint Venture agreement with Gel **Resources** and Great Gold Mines (formerly Gutnick **Resources**), completing a considerable amount of work, including extensive regional RAB and aircore drilling, with limited follow up RC and diamond drilling at several prospects. Newmont subsequently divested the project to Renaissance Minerals in September 2010. Renaissance Minerals completed additional aircore and RC drilling over the local Kirgella Gift area, leading to the initial discovery of Providence some 300 m to the south. Following a merger with Emerald **Resources** in October 2016 to focus on Cambodian gold projects, the tenure was dropped and subsequently acquired by a group of local prospectors. KalGold has entered into a farm-in agreement with this group, with the option to acquire up to a 75% interest in a number of tenements including E 28/2655 via certain expenditure milestones. The agreement includes full mineral rights. The Mineral **Resource** Estimate (MRE) reported here is completed in accordance with the JORC Code (2012) and is the first MRE undertaken at Kirgella Gift and Providence

### **Resource** Estimation Methodology

Micromine (v2023.5) software was used for all drillhole processing, interpretation, statistical assessment and grade estimation and reporting purposes. Mineralisation has been interpreted as a series of discrete estimation domains at both Kirgella Gift and Providence which strike between 345-010-degree and dip between 75-90-degree to the west. The reported Mineral **Resource** consists of: Kirgella Gift: Eight domains which range in strike length from 30 to 365 m (average 165 m), with a vertical extent of 45 to 230 m (average 150 m) vertically and with a true width between 1.2 to 12.5 m (average 6.8 m). Providence: Five domains which range in strike length from 100 to 200 m (average 180 m), with a vertical extent of 75 to 145 m (average 110 m) vertically and with a true width between 1.4 to 5.5 m (average 3.4 m). There are an additional twelve small, mineralised domains interpreted (seven at Kirgella Gift and five at Providence) which have been excluded from the Mineral **Resource** due to currently limited drill coverage and supporting data. Raw sample data was flagged by rock type, oxidation and mineralised domain identifier, prior to creating 1.0 m composites. A variety of techniques were used to assess the need to apply top cuts. Grade distribution disintegration analysis implied there was a step change in the grade at 10 g/t at Kirgella Gift (impacting 2 composites) and at 7.5 g/t at Providence (impacting a single composite), which were applied. Multiple approaches were trialled to obtain reasonably structured continuity models, with the model for the largest mineralised domain at Kirgella Gift applied to all other domains. On-going exploration and additional sampling is expected to improve continuity models in the future, and although the strike and dip directions are currently robust, it is likely the pitch will be modified as more data is available. Due to the low coefficient of variation, and relatively simple grade distributions, ordinary kriging (OK) using topcut grades was selected as the optimal estimation approach. Modelled domains that were informed by less than three drillhole intersections had the composite average assigned to the domain and were excluded from the **resource** inventory. A block size of 5 mE x 25 mN x 20 mRL was selected as the optimal parent block size, based primarily on existing drillhole spacing, but cross-checked against the results of kriging neighbourhood analysis (KNA). The parent cells were sub-blocked to 0.5 mE x 2.5 mN x 0.5 mRL. Post estimation, the block model was **re**-blocked, splitting the elevation height from 10 to 5 m to assist with any future mine planning requirements, such as pit optimisation. Estimation treated the mineralised domains as hard boundaries. Due to the limited number of samples in the complete and partial oxidation domains, weathering/oxidation boundaries was not used to constrain the estimate.

Ounces per vertical metre

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The Kirgella Gift and Providence MRE shows a combined average of 565 ounces per vertical metre through to the base of the model at the 225 mRL. There is an increase in ounces per vertical metre with depth, peaking around 60 m below surface. Below the 290 mRL, the ounce profile tapers off in combination with a reduction in drill hole coverage and spacing with depth. Though not diagnostic, the curve is consistent with gold mineralisation opportunities that are yet to be drill tested, both near surface and at depth down-dip of the drilled deposit

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About KalGold ASX-listed **resources**

company Kalgoorlie Gold Mining (KalGold, ASX: KAL) is a proven, low-cost gold discoverer with a large portfolio of West Australian projects. Current focus includes: The Bulong Taurus Project, 35km east of Kalgoorlie-Boulder. Contains the outcropping La Mascotte gold deposit as well as a series of satellite prospects and historic workings of the Taurus Goldfield. Importantly, KalGold's methods resulted in the definition of a JORC (2012) MRE (3.61 Mt @ 1.19 g/t Au for 138,000 oz1 ) that is one of the most inexpensive in recent times (A\$ 4.60 per ounce of gold). Exploration work continues at the project. The Pinjin Project within the 30Moz Laverton Tectonic Zone (host to Sunrise Dam, Granny Smith, Rebecca, Anglo Saxon, and Wallaby projects). Located only 25km north along strike from **Ramelius Resources** (ASX: RMS) Rebecca Gold Project. With historic work identifying open gold mineralisation from shallow levels, work is focussing on defining and testing targets throughout the project area while defining new **resources**. At Kirgella and Pinjin South, tenure is the subject of a farm-in over the next two years to expand upon known mineralisation. Between this tenure and KalGold's existing tenure and applications, the Company has established a significant presence in a strategic and important region. Other projects are the focus of early-stage exploration programs. Gold anomalism and recent discoveries are driving efforts at Perrinvale and Zelica. Additionally, lithium potential is being tested at the Pianto and Pinjin projects.

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