16 November 2026

# Mammoth Secures Option to Acquire 80% of Advanced Western Australian Tungsten Project

**Kilba Tungsten Project hosts a Mineral Resource of 7.2Mt @ 0.19% $WO_3$, with high-grade drill intercepts and a further 4.5km of untested targets – all in a Tier-1 Pilbara location.**

**American Tungsten & Antimony (ASX: AT4) enters into Binding Framework Agreement with M79 for an exclusive right to 20% offtake of the existing MRE and collaboration as part of a broader strategy to establish a vertically integrated mine to APT producer supply chain.**

## Key Points

- **Mammoth has conditionally agreed to acquire 80% of the Kilba Tungsten Project in WA, which outcrops at surface, has a substantial Mineral Resource and drill-ready targets defined.**
- **Kilba is located in the Nanutarra region of the Western Pilbara, ~20km from the North West Coastal Highway and 135km south-west of Onslow.**
- **Kilba hosts a Mineral Resource of 7.2Mt @ 0.19% $WO_3$ at a 0.05% $WO_3$ cut-off (MRE), reported in accordance with the JORC 2012 Code, comprising:**
  - **79% Indicated Resource of 5.7Mt @ 0.20% $WO_3$**
  - **21% Inferred Resource of 1.5Mt @ 0.15% $WO_3$**
- **Drilling has returned numerous significant results across the Project, including:**
  - **13.0m @ 1.01% $WO_3$ from 59.0m, including 1m @ 8.24% $WO_3$ from 68m** - KRC0157
  - **14.5m @ 0.80% $WO_3$ from 42.5m** - KDD0003
  - **7.0m @ 0.90% $WO_3$ from 41.0m, including 4.0m @ 1.49% $WO_3$ from 41m** - KRC0098
  - **10.0m @ 0.59% $WO_3$ from 7.0m, including 1.0m @ 1.84% $WO_3$ from 15m** - KRC0122
  - **10.0m @ 0.48% $WO_3$ from 11.0m, including 1.0m @ 1.68% $WO_3$ from 14m** - KRC0146
- **Significant potential to grow the existing MRE, with multiple untested drill-ready surface targets over 4.5km strike, supported by detailed surface mapping and rock chip sample results of up to 1.67% $WO_3$.**
- **Mammoth has received firm commitments to raise $3.87m via a two-tranche placement at $0.026 per share, providing funding to advance its exploration and development strategy at Kilba.**
- **American Tungsten and Antimony (ASX: AT4), which is developing a vertically integrated international Tungsten and Antimony supply chain, has committed to $1.58m of the placement and will become a substantial shareholder in Mammoth.**

- **Mammoth has entered into a Binding Framework Agreement (BFA) with AT4, under which AT4 will have an exclusive right to 20% of the offtake from the existing Kilba MRE. AT4 and M79 will work together to establish a vertically integrated value chain from mine to APT (Ammonium Paratungstate) producer.**

Mammoth Minerals Limited (**Mammoth** or **the Company**) (ASX: M79) is pleased to advise that it secured a transformational growth opportunity in the global tungsten industry after entering a conditional agreement to acquire an 80% interest in the advanced **Kilba Tungsten Project** in WA and entering into a Binding Framework Agreement with American Tungsten and Antimony (ASX: **AT4**) encompassing a cornerstone investment in the Company and strategic collaboration.

Mammoth has entered into a binding Heads of Agreement with Cuvier Resources Pty Ltd (**Cuvier**) and its sole shareholder, Creekwood Nominees Pty Ltd (**Vendor**), under which the Company's wholly-owned subsidiary, M79 WA Pty Ltd (**Purchaser**), will, subject to the satisfaction or waiver of the conditions precedent summarised below, acquire 80% of the issued shares in Cuvier.

Cuvier holds an exploration licence application E08/3806, which covers the Kilba Tungsten Project (**Kilba** or **Project**), an advanced tungsten exploration project located in the Pilbara region of Western Australia.

The Kilba Tungsten Project hosts a previously disclosed global Mineral Resource Estimate (MRE)[1] of **7.2Mt @ 0.19% $WO_3$**, reported in accordance with the JORC 2012 Code, including an Indicated Resource of **5.7Mt @ 0.20% $WO_3$** and an Inferred Resource of **1.5Mt @ 0.15% $WO_3$**, together with numerous significant historical drill intersections*.

*Note : Mineral Resource Estimates reported were previously reported by Tungsten Mining NL on 30th January 2015 in accordance with JORC 2012 Guidelines ASX Release "Kilba Mineral Resource Update". 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 and that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. Nothing has come to the attention of the Company that causes the acquirer to question the reliability of the previously reported Resource.

**Mammoth Minerals Managing Director, Glenn Poole, commented:**

*"Kilba represents an opportunity for Mammoth to secure an advanced Australian tungsten project with an established Mineral Resource and tremendous scale potential defined by mapping and sampling, together with a strategic partnership that will allow us to establish a global product value chain that extends from the mine to final product.*

*"What particularly attracted us to Kilba is that the existing 7.2Mt Mineral Resource is only part of the opportunity. The Resource outcrops at surface, with a further 4.5km of skarn mineralisation targets identified which are yet to be drill tested.*

*"Against the backdrop of a surging demand outlook for tungsten for military, defence and high-technology applications, the opportunity to acquire an asset of this quality, with significant growth potential, was too great to overlook.*



[1] Mineral Resource Estimate as reported by ASX:TGN "Kilba Mineral Resource Update" Dated 30 January 2015

*"Given its advanced nature and attractive relative price point, we believe that the Kilba Project acquisition represents significant value for our shareholders.*

*"The fact that we were able to secure a project of this quality is testament to the outstanding network and connections of our Board, giving us exposure to one of the most attractive commodity opportunities in the strategic metals complex.*

*"We are also very excited to welcome American Tungsten & Antimony as a cornerstone shareholder and vertical integration partner. AT4 has recently completed the acquisition of the Del Sol Refinery, which is undergoing studies on the development of an APT processing pathway. With AT4's exclusive right to 20% offtake from the existing MRE at Kilba, our goal is to develop a fully integrated mine to APT product value chain."*

**Strategic Shareholder Placement**

Concurrently with the transaction, ASX-listed American Tungsten & Antimony (AT4) has agreed to take a substantial position on the Mammoth share register, and will hold approximately 8.6% upon completion of the two-tranche placement outlined below.

AT4 recently completed a transaction that transforms the company from developer into a near-term producer. The completion of the Del Sol Refinery acquisition[2] in late October is a transformational step in AT4's strategy to establish a vertically integrated US critical minerals business. The Nevada refinery provides an established processing platform that has already demonstrated production of high-purity antimony metal.

AT4 is fast-tracking a 100tpa nameplate Ammonium Paratungstate (APT) circuit at the Del Sol refinery, as the initial stage in the development of the up to 5,000tpa America First Tungsten Project. The 100tpa APT circuit is intended to generate U.S.-refined physical APT for downstream evaluation and qualification, while supporting a potential domestic revenue opportunity amid strong market demand. AT4's longer-term plan is to develop Del Sol into a critical minerals processing campus serving domestic and allied producers.

**APT**, a white crystalline salt, is the main intermediate concentrate product in the tungsten supply chain. Wolframite and scheelite concentrates are digested and purified into APT. APT can then be calcined to tungsten oxide and reduced to tungsten powder, which goes into tungsten carbide, alloys and chemicals. Because nearly all tungsten passes through this chemical state, APT is the benchmark product the market prices against.

**Binding Framework Agreement with American Tungsten and Antimony**

Mammoth and AT4 have entered into a Binding Framework Agreement (BFA) for a strategic investment, exclusive tungsten offtake right and joint technical and commercial program linking Mammoth's Kilba Tungsten Project in Western Australia with AT4's Del Sol Refinery in Amargosa Valley, Nevada.

APT is the essential intermediate for tungsten metal powders and tungsten carbide used across defense, aerospace, semiconductor and industrial applications. Tungsten has not been mined commercially in the United States since 2015 and, from 1 January 2027, US defense contractors will be restricted from sourcing tungsten from China and other covered countries under 10 USC 4872 and DFARS 252.225-7052.

AT4's Del Sol refinery is at the centre of a Western shift away from dependence on non-allied



[2] Refer ASX:AT4 Announcement 30 October 2026 "AT4 Completes Acquisition of Del Sol Refinery"

sources of tungsten. Del Sol is a constructed hydrometallurgical refinery on approximately 35 acres of private land, permitted to process up to 18,500 short tons (approximately 16,800 tonnes) of feed per year. Metso is completing a concept study for an APT circuit at Del Sol at a design capacity of 2,500 tonnes per annum, with a modular pathway to 5,000 tonnes per annum , and AT4 is fast-tracking a proposed 100 tonne per annum first-stage circuit and testing potential feed sources through the Mineral Intelligence Engine™ (American Tungsten and Antimony, ASX Release "AT4 Unveils Del Sol Mineral Intelligence Engine", 4 November 2026|). No tungsten processing circuit is currently installed at Del Sol.

Under the pathway to be evaluated, Kilba ore would be upgraded by gravity concentration on site to a scheelite concentrate, shipped in containers from Fremantle Port to the US West Coast and trucked to Nevada for conversion to APT at Del Sol. Mammoth will provide origin and chain-of-custody documentation so that APT produced from Kilba concentrate can be supplied to customers that require a fully traceable, allied supply chain.

Mammoth has granted AT4 the exclusive right to purchase 20% of all tungsten concentrate and other tungsten-bearing product produced from within the current Kilba Mineral Resource, measured by contained $WO_3$, and to process it at Del Sol or another facility nominated by AT4. The right applies to each shipment (or each quarter) so that AT4 receives its 20% share at all times until the current Mineral Resource is depleted. It may be extended to any future Mineral Resource at Kilba by mutual consent of Mammoth and AT4.

The offtake right is to be documented in a binding offtake agreement between AT4, Mammoth, the Purchaser and (following completion of the Acquisition) Cuvier, negotiated on arm's length commercial terms (**Offtake Agreement**). Pricing has not been agreed.

The parties must negotiate the Offtake Agreement in good faith with a view to signing it within three months after the joint investigation report (technical and commercial evaluation of viability of Kilba Concentrate processing to produce APT at Del Sol) is approved. AT4 may at any time require the Offtake Agreement to be signed, in which case Mammoth must sign it within 40 business days, with any terms not agreed within that period to be determined by an independent tungsten market expert on an arm's length basis. AT4 is not obliged to require the Offtake Agreement to be signed or to enter into it. If the Offtake Agreement has not been signed within 18 months, the offtake right lapses, unless AT4 has required it to be signed or the failure to sign is attributable to Mammoth's breach.

The offtake right is not, and should not be read as, a production target. No current scoping, pre-feasibility or feasibility study has been undertaken in respect of the Kilba Project, no decision to mine has been made, and there is no certainty that any part of the Mineral Resource will be mined or that any tungsten concentrate will be produced. Previous scoping studies published in relation to the project are not considered reliable due to the significant change in commodity prices and costs associated relative to when the studies were previously published.

Any future production is subject to, among other things, completion of the Acquisition, execution of the Offtake Agreement, the grant of E08/3806, the completion of appropriate technical and economic studies, the receipt of all necessary approvals and funding and the terms of the shareholders' agreement for Cuvier.

If the Agreement terminates, or the Acquisition has not completed within 6 months (other than because of AT4's breach), AT4 may require Mammoth to transfer all of the shares in the Purchaser to AT4 (or, at AT4's election, to use its best endeavours to procure the assignment of the

Purchaser's rights under the Agreement to AT4) for consideration equal to the amounts paid by the Purchaser under the Agreement.

**Kilba Tungsten Project Summary**

The Kilba Project is located within the Pilbara Region of Western Australia, 320km north-east of the regional centre of Carnarvon and 250km south-west of the town of Karratha.

Kilba hosts a Mineral Resource of 7.2Mt @ 0.19% $WO_3$ at a 0.05% $WO_3$ cut-off (MRE), reported in accordance with the JORC 2012 Code, comprising:

- 79% Indicated Resource of 5.7Mt @ 0.20% $WO_3$
- 21% Inferred Resource of 1.5Mt @ 0.15% $WO_3$

The mineralisation occurs as disseminated scheelite within skarn rocks adjacent to the Kilba Granite. The MRE is defined based on a total of 195 drill holes for 17,192m of drilling and was conducted in 2015. The APT tungsten price in January 2015 when the mineral resource was reported was US$310-320/mtu. Importantly the MRE extends to a maximum depth of 150m from surface and is open along strike in Zone 11 and at depth.

Significant drill intercepts from across the Resource area include[#]:

- **13.0m @ 1.01% $WO_3$** from 59.0m, **incl. 1m @ 8.24% $WO_3$** from 68m - KRC0157
- **14.5m @ 0.80% $WO_3$** from 42.5m - KDD0003
- **7.0m @ 0.90% $WO_3$** from 41.0m, **incl. 4.0m @ 1.49% $WO_3$** from 41m- KRC0098
- **10.0m @ 0.59% $WO_3$** from 7.0m, **incl. 1.0m @ 1.84% $WO_3$** from 15m- KRC0122
- **7.0m @ 0.78% $WO_3$** from 47.0m, **incl. 2.0m @ 1.77% $WO_3$** from 50m;- KRC0155 and
    - **3.0m @ 1.24% $WO_3$** from 58m, incl. **2.0m @ 1.76% $WO_3$** from 58m
- **10.0m @ 0.48% $WO_3$** from 11.0m, **incl. 1.0m @ 1.68% $WO_3$** from 14m- KRC0146
- **11.0m @ 0.39% $WO_3$** from 51.0m, **incl. 1.0m @ 2.11% $WO_3$** from 52m- KRC0104
- **12.0m @ 0.33% $WO_3$** from 104.0m, **incl. 1.0m @ 1.69% $WO_3$** from 108m- KRC0141
- **11.0m @ 0.33% $WO_3$** from 10.0m KRC0156
- **20.0m @ 0.17% $WO_3$** from 102.0m- KRC0144
- **9.0m @ 0.34% $WO_3$** from 32.0m, **incl. 1.0m @ 1.62% $WO_3$** from 33m- KRC0100 and
    - **6.0m @ 0.40% $WO_3$** from 19.0m, **incl. 1.0m @ 1.02% $WO_3$** from 19m
- **8.0m @ 0.36% $WO_3$** from 18.0m, **incl. 1.0m @ 1.26% $WO_3$** from 19m- KRC0151
- **4.0m @ 0.68% $WO_3$** from 21.0m, **incl. 1.0m @ 1.76% $WO_3$** from 22m- KRC0106
- **6.0m @ 0.45% $WO_3$** from 21.0m- KRC0102
- **3.0m @ 0.82% $WO_3$** from 75.0m, **incl. 1.0m @ 1.41% $WO_3$** from 76m- KRC0101

- **3.1m @ 0.79% $WO_3$** from 30.7m, **incl. 1.0m @ 1.21% $WO_3$** from 30.7m- KDD0027
- **2.0m @ 1.21% $WO_3$** from 41.0m, **incl. 1.0m @ 2.04% $WO_3$** from 41m- KRC0130
- **5.0m @ 0.46% $WO_3$** from 71.0m, **incl. 1.0m @ 1.07% $WO_3$** from 71m- KRC0143
- **8.0m @ 0.28% $WO_3$** from 53.0m- KRC0099
- **7.0m @ 0.28% $WO_3$** from 46.0m- KRC0145

Importantly, the existing MRE represents only part of the broader exploration opportunity at Kilba. Detailed geological mapping and rock chip sampling have defined over 4.5km of additional skarn targets that remain untested by drilling (see Figure 1), with surface sampling returning grades of up to 1.67% $WO_3$.

Beyond the defined Mineral Resources, a further 4.5km of skarn targets defined by detailed mapping and rock chip sampling are yet to be drill tested, highlighting outstanding growth potential within the project area. Significant rock chip results from across these skarn targets which are yet to be drill tested include:

- **1.67% $WO_3$** - KS0016
- **1.62% $WO_3$** - KS0080
- **1.01% $WO_3$** - KS0067
- **0.98% $WO_3$** - KS0025
- **0.97% $WO_3$** - KS0017
- **0.94% $WO_3$** - KS0012
- **0.72% $WO_3$** - KS0020
- **0.56% $WO_3$** - KS0022
- **0.50% $WO_3$** - KS0013
- **0.48% $WO_3$** - KS0019
- **0.44% $WO_3$** - KS0014
- **0.41% $WO_3$** - KS0021

Note: Rock chip samples are selective by nature and are not necessarily representative of the mineralisation in the sampled area.

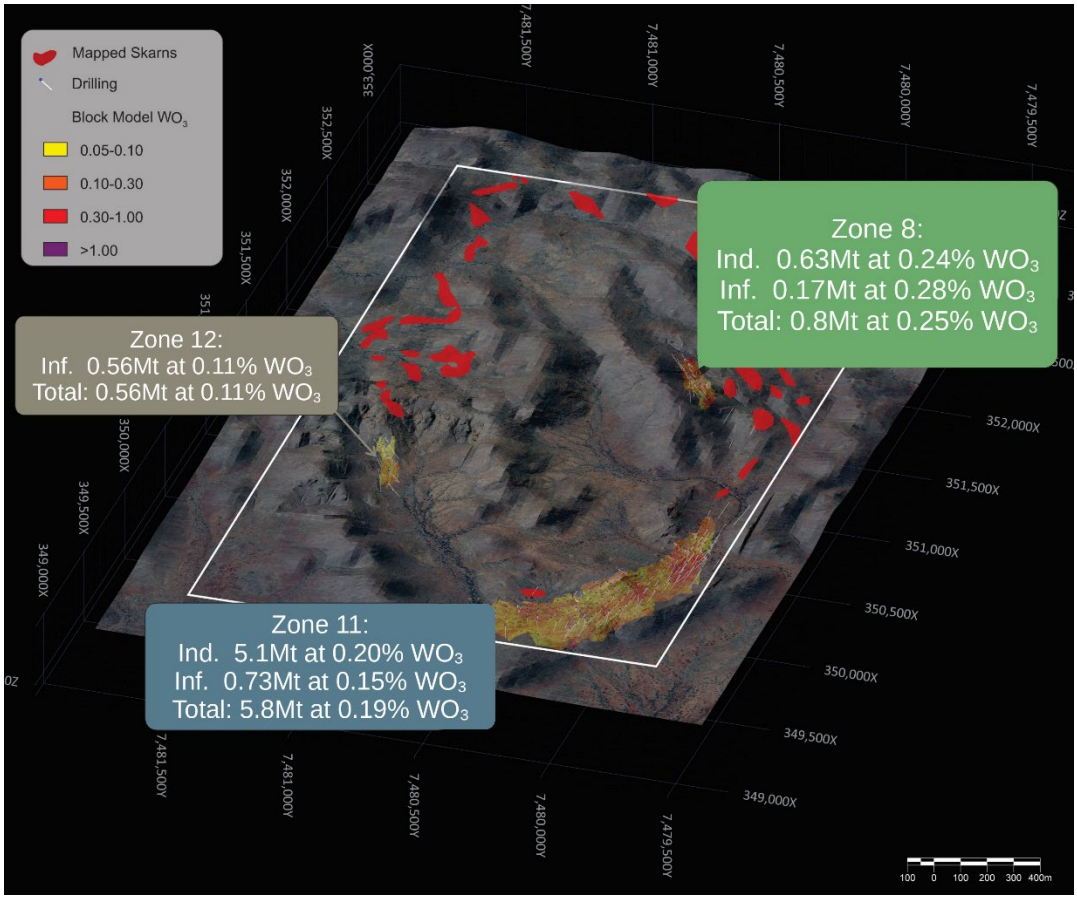



*Figure 1: Plan view of Mineral Resource, Drilling, Mapped Skarns and Rock Chip Samples*

Mammoth believes this combination of an established Mineral Resource, extensively exposed at surface, a substantial pipeline of untested targets and a broader strategy to establish a vertically integrated mine to APT value chain with AT4 provides a compelling platform from which to advance Kilba.

**Tungsten – Overview and Applications**[i]

Tungsten is deemed a critical mineral by multiple jurisdictions including the EU, Japan, USA, Canada and Australia. Tungsten's extreme hardness, density and high melting point make it an indispensable ingredient for a variety of applications, with key end user markets including:

- **Defence:** armour piercing munitions, tank armour, hypersonic weapons
- **Technology:** High-purity tungsten and tungsten hexafluoride ($WF_6$) act as vital contact plugs and thin-film layers in advanced AI processors, robotics and solar panels
- **Electric vehicles:** gearing systems, battery anodes/cathodes and wiring looms in vehicle semiconductors
- **Industrial:** mining equipment, energy production, construction and aerospace

China is responsible for 79% of global annual tungsten production (estimated 2025 production, based on the USGS Mineral Commodity Summary February 2026) and imposed export licencing on tungsten and related compounds in February 2025.

This has generated significant global interest in developing ex-Chinese supply chain sources to mitigate risk, particularly for defence and military security. The recent global increase in military expenditure is seen as a key driver for tungsten's recent price appreciation.

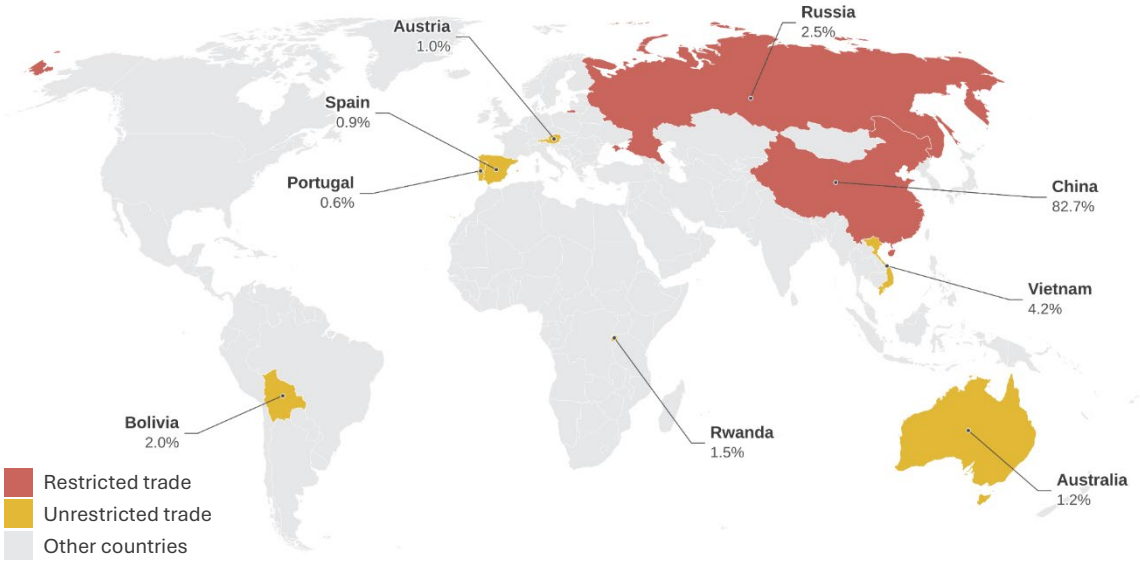



*Figure 2: Significant Global Tungsten Supply Sources (Share of global tungsten supply by country (%) and trade status)*
*Source: US Geological Survey, Mineral Commodity Summaries, February 2026*

## Kilba Project Detailed Overview

### Location

The Kilba Project is located within the Pilbara Region of Western Australia, 320km north-east of the regional centre of Carnarvon and 250km south-west of the town of Karratha.

The principal access to the project area is provided by the North West Coastal Highway, a sealed dual-lane carriageway with direct links to ports at Dampier, Geraldton and Fremantle.




*Figure 3: Kilba Tungsten Project Regional Location Map with surrounding service locations*

**Local Geology**

The Kilba Project is dominated by an east-west trending elliptical dome of Kilba Granite, often referred to in historical reports as the "eye structure" (Figure 3). The rock is a medium to coarse grained quartz monzonite. This granite has intruded and deformed the Morrissey Metamorphic sequence, producing several sets of dykes and sills. The south-western margin of the granite is heavily greisenised.

Diamond core logging has shown that the Morrissey Metamorphics locally comprise a sequence of calc-silicates, marbles, quartzites, amphibolites, quartz-mica schists and BIFs. The metamorphics wrap around the Kilba Granite, with the contact dipping away from the granite at the western end.

Northwest of the eye structure to Zone 12, dips are c.70° towards the north to northwest, whereas at Zone 11 stratigraphy is folded around the Kilba granite with shallower dips of between 15 to 60° to the south to southwest.

The Morrissey Metamorphics from Zone 8 and further east are complexly folded with repetition of units and variable dips to the north and south. Tungsten mineralisation at Kilba is associated with skarns and calc-silicate units that wrap around the Kilba granite.

These skarns and calc-silicate units occur in a 40 to 100-metre-wide carbonate-rich unit of the Morrissey Metamorphic suite and recent mapping has defined significant strike lengths of this unit around the Kilba granite.

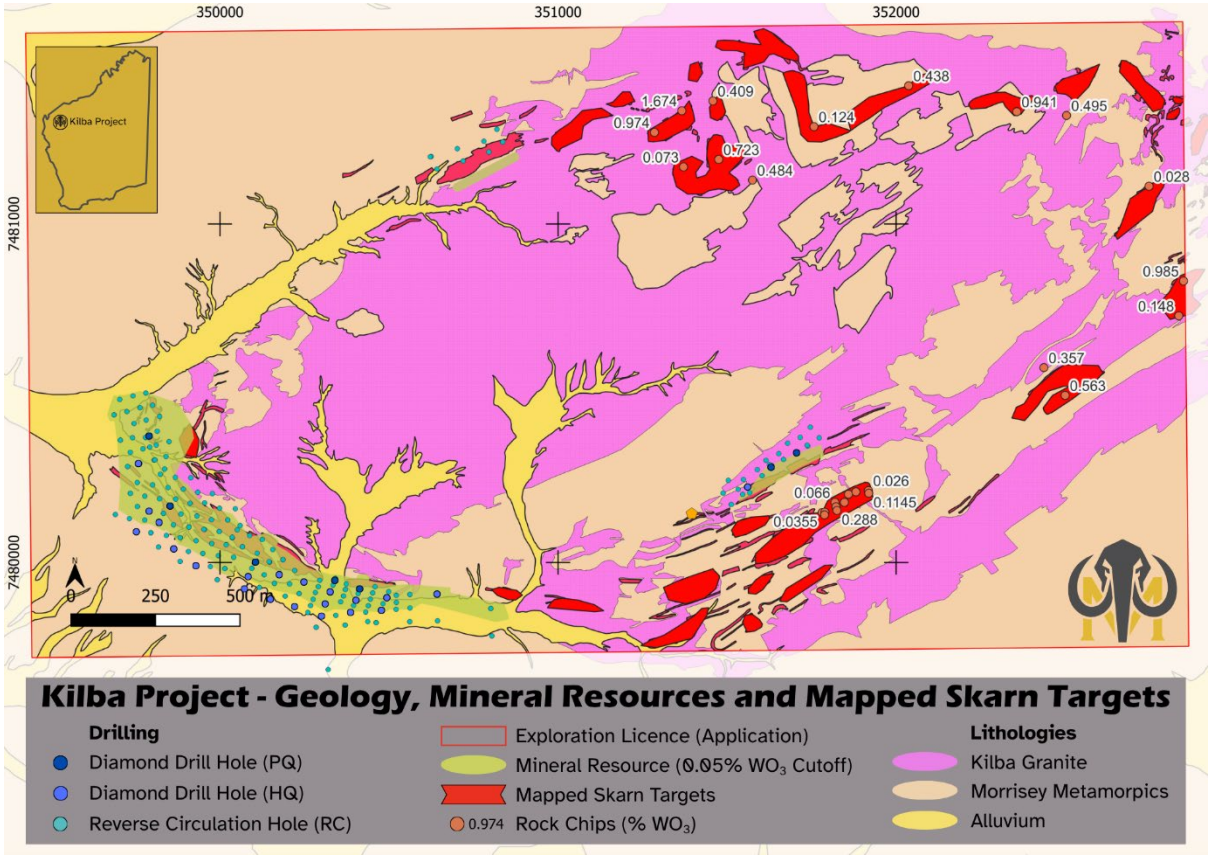



*Figure 4: Project Geology, Resources and Mapped Skarn Targets*

At the north and eastern edges of the Kilba Granite, the target horizon is found in rafts and/or roof pendants of sediments within the granite and are complexly folded, faulted and disjointed.

Scheelite mineralisation is associated with retrograde assemblages of vesuvianite, epidote or calcite altered garnet, wollastonite and pyroxene. The presence of fluorite associated with scheelite has also been noted. This skarn is predominantly hosted by carbonate and calc silicate rock proximal to the granite contact.

## Drilling Summary

*Table 1: Drilling Summary*

| Period | Prospect | RC | | Diamond (HQ) | | Diamond (PQ) | | Total | |
|---|---|---|---|---|---|---|---|---|---|
| | | Holes | Metres | Holes | Metres | Holes | Metres | Holes | Metres |
| Nov 2012 –Feb 2013 | Zone 11 | – | – | 23 | 2,681.5 | 1 | 65.8 | 24 | 2,747 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Feb–April 2013 | Zone 11 | 43 | 4,369 | – | – | – | – | 43 | 4,369 |
| Aug–Nov 2014 | Zone 8 | 23 | 1,949 | 1 | 60.0 | 2 | 114.2 | 26 | 2,123 |
| Aug–Nov 2014 | Zone 11 | 83 | 6,601 | 5 | 225.6 | 5 | 285.3 | 93 | 7,112 |
| Aug–Nov 2014 | Zone 12 | 9 | 841 | – | – | – | – | 9 | 841 |
| **Total** | | **158** | **13,760** | **29** | **2,967.1** | **8** | **465.3** | **195** | **17,192** |

**Mineralisation**

At Zone 11, tungsten mineralisation dips from surface at 25 to 65 degrees toward the south to southwest and is associated with skarns and calc-silicate units. Typically, high-grade mineralisation is associated with retrograde skarn units which are often surrounded by low to medium-grade disseminated scheelite mineralisation in calc-silicate and sedimentary units.

Toward the east of the prospect, tungsten mineralisation tends to occur in a single high-grade zone. In the central and western domains, mineralisation is associated with multiple shallow-dipping low to medium-grade units, and in Zone 8, skarn mineralisation dips steeply towards the north-northwest. Surface mapping has identified numerous skarn units at Zone 8 that have not been adequately drill-tested and future exploration will focus on evaluating these targets.

**Exploration History**

Exploration has been undertaken for a variety of commodities within the project area. Open file reports detailing this work can be found at the WA Department of Mines, Petroleum and Exploration[ii]. An account of historical exploration focused on tungsten mineralisation is provided below.

The majority of the work that led to the delineation of tungsten mineralisation at Kilba was completed by Australia and New Zealand Exploration Company (ANZECO) between 1973 and 1981. Between 1973 and 1974, ANZECO conducted a heavy mineral concentrate stream sediment sampling programme over the Kilba area. Tungsten mineralisation was confirmed through scheelite grain counting and ultraviolet lamp detection.

The source of the tungsten mineralisation was traced to a number of mineralised skarn hosting scheelite, altered marbles and calc-silicate units, over which Mineral Claims were pegged. The area covered by the original Mineral Claims lies within the tenure that Mammoth Minerals has conditionally agreed to acquire.

Over the period 1974-1975, geological mapping, costeaning and diamond drilling were completed. Nine costeans were excavated over a total length of 325m, and six of the costeans were channel sampled returning numerous significant $WO_3$ assays in the range of 0.13 - 0.71% over apparent widths of up to 3.4m. Nine diamond drillholes were cored for 645m. The drilling tested to a maximum vertical depth of approximately 125m, and the most encouraging results were returned from two areas known as Zone 11 and Zone 8.

At Zone 11, mineralised intercepts of up to 7.65m at 0.8% $WO_3$ were encountered (DDH04). A further nine diamond drillholes were completed during 1975 at Zone 11 and Zone 8. The drilling tested to a maximum vertical depth of approximately 150m. At Zone 11, significant skarn altered sections of carbonate and calc-silicate rock were intersected in four drillholes, but with erratic mineralisation. Strong tungsten mineralisation was intersected, including an intercept of 3.17m at 5.35% $WO_3$ (DDH19).

At Zone 8, granite dykes generally prevented intersections being made with the outcropping horizons. Only two holes intersected narrow intercepts of skarn altered carbonate or calc-silicate rock. The mineralisation at Zone 8 included a best result of 3.0m at 1.81% $WO_3$ (Middleton, 1981b). In 1976 and 1977, 13 diamond drillholes for a total of 1,231m were completed. Most of the drilling campaign (ten holes) was directed at Zone 11, which was proving to be the most continuous zone of mineralisation. Two holes were cored into Zone 8, and one hole was drilled into Zone 10 in the south-eastern quadrant of the claim area.

An additional seven costeans were excavated. Four of the costeans were through Zone 11 and returned channel samples ranging from 0.3% up to 0.86% $WO_3$. One costean through Zone 8 yielded channel sample assays ranging from 0.34% up to 1.60% $WO_3$. A single costean was sunk into both Zone 10 and Zone 9 (to the east of Zone 8). No significant mineralisation was indicated in the Zone 9 and Zone 10 costeans (Bell, 1977).

During 1977, two samples from Zone 11, consisting of quartered drill core and costean surface material, were submitted to Union Carbide for scheelite beneficiation sighter metallurgical test work.

Sample 1 consisted of surface material from a costean at Zone 11 and Sample 2 consisted of quartered drill core from various holes. The test work showed that a concentrate of > 65% $WO_3$ could be produced using a combination of gravity separation, low intensity magnetic separation (LIMS) and froth flotation.

During 1980, ANZECO planned a programme to determine whether tungsten occurrences other than Zone 11 and the western part of Zone 8 might amount to targets of suitable grade and tonnage, such as to warrant individual development or as supplement to prospective tonnages at Zone 11. This was to be achieved by detailed mapping and night lamping followed up by diamond drilling the most promising occurrences.

The geological mapping located additional drilling targets at Zone 8 and Zone 11. A new target area, Zone 12, was mapped on the northern flank of a granitic stock. Ten diamond drillholes were drilled for a total of 702m. Five holes were sited on the Zone 12 area, of which four returned significant tungsten mineralisation (> 0.1% $WO_3$), including a best intercept of 3.98m at 0.23% $WO_3$ (DDH25, 51.4m to 56.05m). Of four holes drilled into Zone 8, three returned significant tungsten mineralisation, with a best result of 3.0m at 1.81% $WO_3$. One diamond drillhole was positioned at the western extremity of Zone 11, intersecting up to 3.4m at 0.14% $WO_3$ and 1.2m at 0.23% $WO_3$.

The results indicated that Zone 11 mineralisation has a strike extent of approximately one kilometre. Following the drilling programme, it was deemed that there was insufficient drill data to calculate ore reserves.

During 2005, the Kilba Project was included in a portfolio of tungsten projects in the Pilbara region in an Initial Public Offering launched under the name of Vital Minerals Ltd ("Vital"). Work completed by Vital included verification of previous exploration activities, reconnaissance mapping, the purchase of Landsat imagery and the commissioning of a magnetic and radiometric survey. Vital planned to implement a drilling programme to confirm the continuity of the skarn horizons, however their focus shifted to West African gold exploration and no further work was completed.

**Recent Exploration**

In April 2012, Tungsten Mining staff undertook a four day visit to the company's Pilbara Project to ground truth and validate historic data and work programs. In January 2013, Dr Martin Hughes, a specialist in skarn mineralisation, accompanied Tungsten Mining geologists to the Prospects in the Pilbara. Time was spent investigating the Kilba skarns in the field and drill core from the drilling campaign.

During the visit 41 core samples were cut from diamond holes KDD0003 and KDD0006 with 51 thin sections prepared and described. Dr Hughes compiled a report detailing the findings of his trip, classifying the skarn types and associated minerals, and gave recommendations for Tungsten Mining on how to proceed with the project.

October 2012, staff from Tungsten Mining and SJS Resource Management spent five days locating historical collars left by the ANZECO diamond drilling campaign in the 1970's and 1980's. Holes that were not located have subsequently had collar locations reviewed and corrected where necessary based on known features (trenches and tracks) located on ANZECO drill plans and sections.

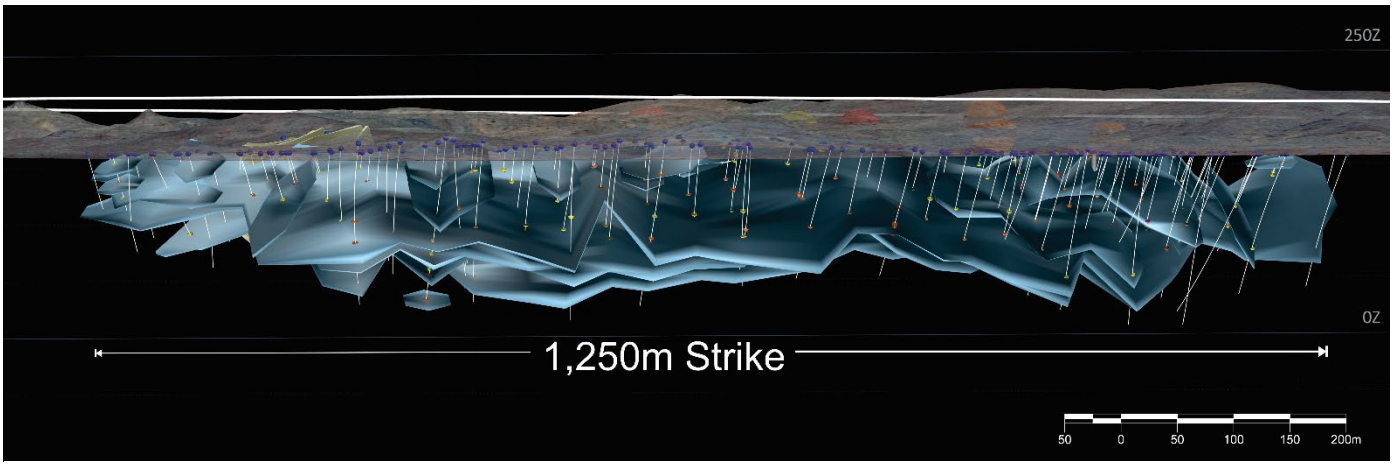



*Figure 5: Zone 11 Long Section Looking NE- open at depth and along strike*

November 2012, AAM Pty Ltd flew detailed Colour Aerial Photography over M08/314 for Tungsten Mining. From this photography AAM Pty Ltd generated a Digital Terrain Model (DTM). Data supplied included a DTM surface with 0.15m vertical accuracy, 0.5m contours and a 15cm resolution digital orthophoto.

Between November 2012 and February 2013 Tungsten Mining drilled 23 HQ/HQ3 diamond holes (KDD0001 — KDD0015, KDD0017 — KDD0023, KDD0025) for 2681.47 metres and one PQ3 diamond hole (KDD0016) for 65.80 metres. The objective of the programme was to test high-grade tungsten mineralisation identified by ANZECO in the 1970s / 1980s associated with skarn and sedimentary units at Zone 11 on the Kilba Project. Drilling was entirely within M08/314.

Between February 2013 and April 2013, Tungsten Mining drilled 43 reverse circulation (RC) holes (KRC0001 — KRC0042 and KRC0032B) for 4,369 metres at Zone 11 of the Kilba Project. The RC drilling programme was designed to conduct pattern drilling on a 40 by 80 metre spacing of high-grade tungsten mineralisation defined by the diamond drilling programme described above.

The August–November 2014 programme included all three prospects and comprised a total of 115 RC holes for 9,391 m (KRC0043–157). The objective of the programme was to complete infill to a 40 m spacing for the Strategic Planning Envelope at Zone 8 and Zone 11 defined by CSA Global in May 2013, test strike extensions and conduct broad-spaced (80 m) drilling at Zone 12

where Union Carbide holes intersected significant tungsten mineralisation in the 1980s. Substantial thicknesses of medium- to high-grade tungsten mineralisation were identified at the Zone 8 prospect, which remained open to the west. Hole KRC0157 returned the best result, with 13 m at 1.01% $WO_3$ from 59 m, including 1 m at 8.24% from 68 m. Drilling at the Zone 11 prospect was also encouraging, with significant intervals 3–20 m wide and grading at up to 0.96% $WO_3$. Drillhole KRC0046 returned the best overall result, with an intercept of 14 m at 0.82% $WO_3$ from 53 m. At the Zone 12 prospect, drilling intersected multiple zones of weak scheelite mineralisation. Hole KRC0082 intersected 2 m at 0.69% $WO_3$ from 83 m.

Detailed mapping was conducted over the entire Eye Structure at the Kilba Prospect in 2014. Mapping was completed to assist in drill planning, locate new tungsten occurrences and for target generation. Richard Russell from R. Russell and Associates Pty Ltd mapped six areas at scales ranging from 1:1,000 to 1:5,000. Twenty-nine rock chip samples were collected during mapping. First-pass (40 by 100 m grid) and orientation soil sampling programmes were conducted over parts of the Kilba project (M08/314) during May 2015. A total of 112 samples were acquired. The best results were obtained from the single orientation lines, with a maximum of 1,375 ppm W on one of the westernmost lines. The area in the northwest of M08/314 yielded a best result of 430 ppm W (sample A032148). No significant results were obtained from the area in the southeast of M08/314. Seven rock-chip samples were collected during the September 2015 geological mapping campaign, concentrated in the northwestern and southwestern corners of the Kilba project tenement M08/314. The best results were at the Star prospect in the northwest of the tenement, where 1.618% $WO_3$ (KS0080) and 1.015% $WO_3$ (sample KS0067) were obtained. The best result in the southeast of the tenement was 0.174% $WO_3$ (KS0044).

Three main trends of skarn-bearing calcsilicate are identified in the mapped area: Star Trend. A trend of skarnoid calcsilicates extends east-northeast along the foot of the main northern range of the Kilba Dome. This includes the 'Star' Prospect which represents the eastern end of the trend. Long Hill Trend. To the north of the Star Trend is a more substantial trend which includes the 'Long Hill' outcrops. Zone 2. North of the Northeastern Carbonates is a series of narrow skarnoid calcsilicates trending west-northwest. The trend terminates in granites to the east and is repeated by folding in the west. This trend coincides with the 'Zone 2' prospect identified by earlier explorers. Results from the mapping indicate that it is likely the emplacement of the Kilba Dome was accompanied by regional, left-lateral wrenching orientated at about 215°–035° NE–SW on the northern flank. Faults are preferentially orientated in four directions, including about 310° (thought to be right lateral 'Y' Riedel shears), 015° ('X' left lateral Riedel shears), north–south to 340° (extension faults), and about 075° east-northeast (compression faults; thrust or reverse faults).

**Metallurgical Test work**

Preliminary test work completed by ANZECO was undertaken on two Zone 11 samples was able to liberate more than 90% of the Scheelite at a 24-48 Mesh (300-600µm) and more than 96.85% of the $WO_3$ reported to the non-magnetic fraction.

Following its acquisition of the project, and its drilling and Mineral Resource estimation, Tungsten Mining completed diagnostic metallurgical tests where 332kg of core was used to create a 180kg composite sample from a large-diameter drill core (KDD0016). This was used to characterise the Kilba ore in terms of its gravity-release behaviour, and to give a prediction of the overall tungsten recovery achievable into a saleable concentrate.

Utilising heavy liquid separation approximately 54% of the mass was rejected for a ~10% $WO_3$ loss. Overall recovery of more than 80% was indicated. Nagrom Tabling results indicated 93.4% of Scheelite reporting to rougher concentrate. Phase 2 gravity circuit result 70.6% $WO_3$ concentrate at only 37% overall recovery, 44% of WO3 to middlings

A phase 2 investigative metallurgical test work program was completed at Nagrom in June 2015. The program builds on the findings and recommendations of the phase 1 test program, in particular to further investigate the potential of a pre-scalping stage to remove a significant proportion of the feed mass as waste prior to beneficiation

This work was completed on a 135 kg composite at 0.27% $WO_3$ and 0.31% S, matched to the October 2014 resource average for Zones 8 and 11. Pre-concentration test work of continuous dense media separation at SG 2.8 rejected 19% of the mass for 1% $WO_3$ loss. Concentrate cleaning utilising a high-intensity magnetic separation lifted the concentrate from 58.9% to 76.6% $WO_3$ at 96.5% stage recovery

Recommendations for future test work included test work on zone 8, a full comminution suite including abrasion index, Middlings mineralogy and flotation optimisation, Options for coarse mechanical sorting using UV or X-ray ore sorting technology and further investigation in tailings recovery.

**Resource Modelling**

In January 2015, Tungsten Mining commissioned CSA Global Pty Ltd (CSA) to perform geological interpretation and 3D-modeling of the Kilba tungsten deposit and completion of a Mineral Resource estimate *(Tungsten Mining NL, ASX:TGN Release "Kilba Mineral Resource Update" 30 January 2015)*[iii].

The resource estimation had been based upon 3D interpretation of the tungsten mineralisation, followed by determination of the mineralised envelopes and grade interpolation within the mineralised envelopes. The block modelling was created within the interpreted closed wireframe models for the mineralised envelopes interpreted and modelled at 0.025% $WO_3$. Statistical analysis showed natural breaks in the WO3 grade population distribution at approximately 0.025% which formed the basis for the decision regarding determination of mineralisation envelope cut-off grade. The Mineral Resource is quoted from estimated blocks above this cut-off grade.

The Multiple Indicator Kriging method was chosen as the basic method for interpolating grade in the Mineral Resource estimate and this was validated by the Inverse Distance Weighting (IDW) algorithm with weighting power of two and three. The block model was then restricted with the topography surface. The Mineral Resource estimate has been reported under the JORC Code 2012 and reported down to a cut-off grade of 0.05% $WO_3$

A summary resource statement at a variable cut off grades is stipulated below in Table 2:

*Table 2 : Kilba Mineral Resource estimate as defined by cut-off grade and ore zone.*

| Cut Off $WO_3$ (%) | Zone | Class | Volume ('000 $m^3$) | Tonnes (kt) | $WO_3$ (%) | $WO_3$ (t) |
|---|---|---|---|---|---|---|
| 0.05 | 8 | Indicated | 220 | 630 | 0.24 | **1,500** |
| | | Inferred | 60 | 170 | 0.28 | **490** |
| | | **Total** | **280** | **800** | **0.25** | **2,000** |
| | 11 | Indicated | 1,800 | 5,100 | 0.2 | **10,100** |
| | | Inferred | 250 | 730 | 0.15 | **1,100** |
| | | **Total** | **2,000** | **5,800** | **0.19** | **11,200** |
| | 12 | Inferred | 190 | 560 | 0.11 | **600** |
| | | **Total** | **190** | **560** | **0.11** | **600** |
| | **Total** | Indicated | 2,000 | 5,700 | 0.2 | **11,600** |
| | | Inferred | 500 | 1,460 | 0.15 | **2,200** |
| | | **Total** | **2,500** | **7,160** | **0.19** | **13,800** |
| 0.10 | 8 | Indicated | 190 | 540 | 0.27 | **1,460** |
| | | Inferred | 52 | 150 | 0.31 | **470** |
| | | **Total** | **240** | **700** | **0.28** | **1,900** |
| | 11 | Indicated | 1,200 | 3,600 | 0.25 | **9,000** |
| | | Inferred | 160 | 460 | 0.19 | **890** |
| | | **Total** | **1,400** | **4,000** | **0.24** | **9,800** |
| | 12 | Inferred | 78 | 230 | 0.15 | **350** |
| | | **Total** | **78** | **230** | **0.15** | **350** |
| | **Total** | Indicated | 1,400 | 4,100 | 0.25 | **10,000** |
| | | Inferred | 290 | 830 | 0.2 | **1,700** |
| | | **Total** | **1,700** | **5,000** | **0.24** | **12,000** |
| 0.20 | 8 | Indicated | 100 | 300 | 0.37 | **1,100** |
| | | Inferred | 35 | 100 | 0.4 | **400** |
| | | **Total** | **140** | **400** | **0.38** | **1,500** |
| | 11 | Indicated | 540 | 1,600 | 0.39 | **6,100** |
| | | Inferred | 55 | 160 | 0.3 | **470** |
| | | **Total** | **590** | **1,700** | **0.38** | **6,500** |
| | 12 | Inferred | 14 | 42 | 0.26 | **110** |
| | | **Total** | **14** | **42** | **0.26** | **110** |
| | **Total** | Indicated | 640 | 1,900 | 0.39 | **7,200** |
| | | Inferred | 100 | 300 | 0.32 | **980** |
| | | **Total** | **740** | **2,200** | **0.38** | **8,100** |
| 0.30 | 8 | Indicated | 58 | 170 | 0.47 | **780** |
| | | Inferred | 22 | 65 | 0.48 | **310** |
| | | **Total** | **80** | **230** | **0.47** | **1,100** |
| | 11 | Indicated | 270 | 790 | 0.54 | **4,200** |
| | | Inferred | 20 | 59 | 0.38 | **220** |
| | | **Total** | **290** | **850** | **0.53** | **4,500** |

| Cut Off $WO_3$ (%) | Zone | Class | Volume ('000 $m^3$) | Tonnes (kt) | $WO_3$ (%) | $WO_3$ (t) |
|---|---|---|---|---|---|---|
| | 12 | Inferred | 4 | 13 | 0.34 | **43** |
| | | **Total** | **4** | **13** | **0.34** | **43** |
| | **Total** | Indicated | 330 | 960 | 0.52 | **5,000** |
| | | Inferred | 47 | 140 | 0.42 | **580** |
| | | **Total** | **380** | **1,090** | **0.51** | **5,600** |
| **0.50** | 8 | Indicated | 15 | 45 | 0.74 | **330** |
| | | Inferred | 8 | 23 | 0.67 | **150** |
| | | **Total** | **23** | **67** | **0.71** | **480** |
| | 11 | Indicated | 100 | 300 | 0.8 | **2,400** |
| | | Inferred | 2 | 5 | 0.62 | **30** |
| | | **Total** | **100** | **310** | **0.8** | **2,400** |
| | **Total** | Indicated | 120 | 340 | 0.79 | **2,700** |
| | | Inferred | 10 | 27 | 0.66 | **180** |
| | | **Total** | **130** | **370** | **0.78** | **2,900** |

Note: Mineral Resource Estimate as Reported by Tungsten Mining NL Announcement 30th January 2015- figures rounded to 2 significant figures, rounding errors may occur.

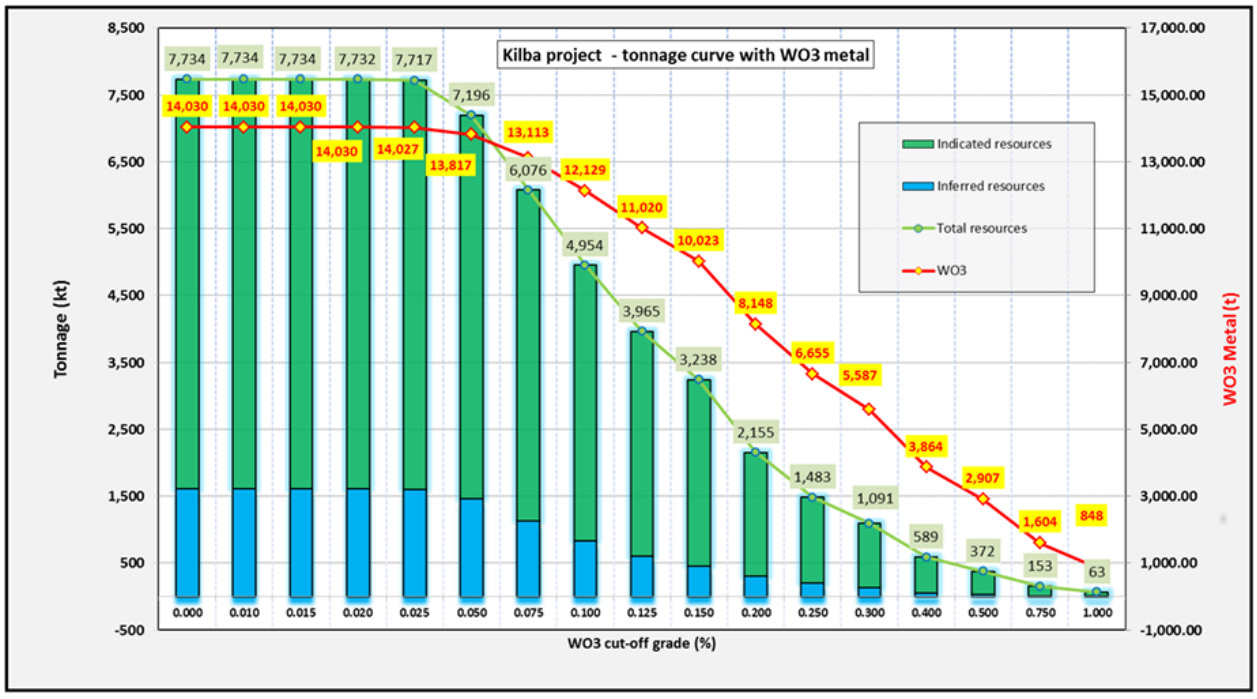



*Figure 6: Grade Tonnage Curve Kilba Tungsten MRE*

**Mineral Resource – Summary of Material Information (Listing Rule 5.8.1)**

**Geology and geological interpretation:** Tungsten mineralisation at Kilba occurs as scheelite in skarns and calc-silicate units of the Morrissey Metamorphic Suite, which wrap around the Kilba Granite dome. Higher-grade mineralisation is associated with retrograde skarn assemblages. The geological interpretation is based on surface mapping of outcrop and trenches, drill hole logging and assay results, and the mineralised envelopes are constrained by lithological and grade interpretations.

**Drilling techniques:** The MRE is based principally on drilling completed by Tungsten Mining between 2012 and 2014, comprising 158 reverse circulation (RC) holes for 13,760m using a face-sampling hammer, 29 HQ3 diamond holes for 2,967.1m and 8 PQ3 diamond holes for 465.3m. Holes were generally drilled at -60°, approximately perpendicular to the strike of the mineralised skarn units. All drilling including historical ANZECO holes were used in the estimation.

**Sampling and sub-sampling techniques:** RC samples were collected at 1m intervals and riffle split at the rig to produce 2–4kg samples. HQ core was cut in half with a diamond saw and sampled on geological intervals of 0.3–1.2m. Samples were dried, crushed to 100% passing 6.3mm and pulverised to 80% passing 75µm. Field duplicates, blanks and certified standards were inserted at a rate of approximately 1 in 30.

**Sample analysis method:** Samples were analysed by fused-glass XRF at Ultra Trace Laboratories in Perth (samples collected before October 2014) and at Nagrom in Kelmscott (samples collected in October and November 2014).

**Estimation methodology:** The MRE was estimated by CSA Global Pty Ltd in January 2015. After unfolding, grades were estimated by Multiple Indicator Kriging (Micromine) within wireframed mineralised envelopes, and the estimate was validated against Inverse Distance Weighting estimates (powers of two and three). The block model used 20mE x 10mN x 10mRL parent blocks, sub-celled to 2.5mE x 1.25mN x 1.25mRL. Bulk density was interpolated from core measurements and calibrated downhole gamma density data. No top cut was applied; the median was used for the highest indicator class.

**Classification criteria:** Indicated Mineral Resources were classified in areas of denser drilling (generally 40m x 40m, with selected 20m infill) where the mineralised zones show robust continuity. The remaining areas, where geological and grade continuity is implied but not verified, were classified as Inferred.

**Cut-off grade:** The Mineral Resource is reported above a cut-off grade of 0.05% $WO_3$. Statistical analysis showed natural breaks in the $WO_3$ grade population distribution at approximately 0.025% which formed the basis for the decision regarding determination of mineralisation envelope cut-off grade. The Mineral Resource is quoted from estimated blocks above this cut-off grade.

**Mining and metallurgical methods and parameters:** Open pit mining is assumed, although no pit optimisation has been undertaken. Metallurgical testwork indicates that the scheelite is amenable to gravity separation (see 'Metallurgical Test work' above). Prevailing commodity prices in a market with strong forecast for growth has driven demand in the exploration and development of Tungsten assets. At Kilba, the current mineral resource grade, indicative metallurgy and the shallow nature of the deposit indicate a likely eventual mining scenario. Modifying factors such as material and labour costs, unforeseen changes in commodity prices and regulatory compliance and approvals may influence the factors required to overall project to a decision to proceed to mining scenario. Further work, to de-risk and improve including, but not limited to those discussed.

**Placement Details**

The Company has received a firm commitment to raise a total of $3,872,000 at an issue price of $0.026 (**Placement**).

A total of 61,000,000 shares will be issued pursuant to the Company's available placement capacity under Listing Rule 7.1 (**Tranche 1 Placement**). A further 87,923,074 shares will be issued subject to shareholder approval at the upcoming AGM (**Tranche 2 Placement**).

The issue price of $0.026 per new share represents a:

- 4% premium to Mammoth's closing price of $0.025 per share on 11 November 2026 and
- Parity with Mammoth's 5 day VWAP of $0.026 per share up to and including 11 November 2026

In a strong endorsement of the Placement and the pathway forward for the Company, the Board has committed to invest a total of $700,000 within the Tranche 2 Placement (**Director Shares**), following shareholder approval under ASX Listing Rule 10.11.

Shares issued under the Placement will rank equally with the Company's existing fully paid ordinary shares on issue. Settlement of the Tranche 1 Placement is expected to occur on 19 November 2026, with the shares issued on or about 20 November 2026.

Vert Capital acted as Sole Lead Manager and Sole Bookrunner for the Placement (**Lead Manage**r). Refer to the Appendix 3B lodged today for further details.

**Use of Proceeds**

Proceeds from the Placement, together with existing cash, will be used for the following purposes:

- Cash consideration for the acquisition of the Kilba Project
- Permitting, infrastructure and RC drilling of Kilba Project
- Metallurgical testing of Kilba Project
- Exploration activities across Excelsior and Bella Gold Projects, USA
- General working capital and costs of the Placement

**Acquisition Terms**

The Company and the Purchaser have entered into a binding heads of agreement (**Agreement**) with Cuvier and the Vendor, under which the Purchaser will acquire an 80% interest in the Tenement by acquiring 80% of Cuvier's issued share capital (**Acquisition**). A summary of the material terms of the Agreement is set out below:

1. Consideration

The total consideration for the Acquisition comprises the following:

- A non-refundable $150,000 exclusivity fee to be paid within 5 business days of execution of the Agreement (**Exclusivity Fee**)
- At completion, the Company will pay a $2,350,000 cash payment (**Cash Consideration**) and (subject to shareholder approval) will issue 100,000,000 fully paid ordinary shares (**Consideration Shares**)

- A 2% Free on Board (FOB) revenue royalty from the sale of all minerals mined and removed from the area within the boundaries of the Tenement, to be granted by Cuvier to the Vendor at Completion under a royalty deed (**Royalty**)

2. Conditions Precedent

Completion of the Acquisition is subject to satisfaction (or waiver) of the following:

- Company completing due diligence investigations to its reasonable satisfaction
- Shareholders approving the issue of the Consideration Shares pursuant to ASX Listing Rule 7.1
- Completion of the two-tranche Placement subject to shareholder approval
- Grant of E08/3806
- Cuvier having divested all of its other tenements and assets (other than the Tenement and the associated mining information), with the Purchaser being satisfied (acting reasonably) that Cuvier has no continuing liability in respect of them
- The parties obtaining all necessary regulatory approvals, and all third party approvals and consents including entering into an agreement with the Pastoralist and Native Title Agreement
- The royalty deed and a shareholders' agreement for Cuvier having been agreed between the relevant parties
- No material adverse change occurring in respect of the Tenement before Completion

If the conditions precedent are not satisfied (or waived) by the date that is six months after the date of the Agreement (or such later date as the parties agree in writing), any party may terminate the Agreement.

Completion will occur two business days after the conditions precedent are satisfied or waived.

3. Relationship following Completion

From Completion, the Purchaser will hold 80% and the Vendor will hold 20% of the issued shares in Cuvier. Cuvier will continue to explore and, if warranted, develop and mine the Tenement.

The Purchaser will be entitled to appoint a majority of Cuvier's directors (including the chair) and will manage Cuvier's operations. The Purchaser will solely fund all of Cuvier's costs and expenditure until a decision to mine, by way of capital contributions for which no shares will be issued, and the Vendor's 20% interest will be free-carried (and not diluted) until then. After a decision to mine, the Purchaser will fund the Vendor's share of Cuvier's funding requirements by way of a non-recourse loan, repayable solely from amounts payable by Cuvier to the Vendor and secured over the Vendor's shares in Cuvier.

The Agreement otherwise contains terms considered standard for an agreement of its nature, including warranties and indemnities.

**This announcement has been authorised for release to the ASX by the Company's Board of Directors.**

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**About Mammoth Minerals**

Mammoth Minerals (ASX: M79) is an Australian-based resource development and exploration company. Mammoth has just announced the exclusive option to acquire 80% of the Kilba Tungsten Project in Western Australia. In addition, Mammoth owns a portfolio of high-potential gold and copper assets across the Americas. Mammoth acquired an option to earn 80% of the high-grade Excelsior Gold Project, located in the world-class Walker Lane trend, Nevada, USA and the 100% owned Bella Gold Project, located near the Homestake Gold Mine in South Dakota, USA, where its maiden exploration programs are underway.

Mammoth Minerals also holds a significant land package in Newfoundland, Canada which is highly prospective for hosting VMS style Copper Mineralisation and a portfolio of tenure in southern Peru targeting large scale intrusive copper deposits. The Peru package includes over 300km$^2$ of greenfield high-grade copper potential through its 100% holding in the Picha Copper-Silver Project (244 km$^2$) and Charaque Copper Project (60 km$^2$) in Southern Peru. The Newfoundland and Peruvian assets are actively undergoing a divestment process.

**Exploration Results**

The information in this announcement is based on, and fairly represents information compiled by Mr Glenn Poole, a Competent Person, who is the Managing Director and CEO of Mammoth Minerals Limited and a Member of the Australasian Institute of Mining and Metallurgy and has sufficient experience relevant to the style of mineralisation and type of deposit under consideration, and to the activity which he has undertaken, to qualify as a Competent Person as defined in the 2012 Edition of the Joint Ore Reserves Committee (JORC) Australasian Code for Reporting of Exploration Results. Mr Poole consents to the inclusion in this announcement of the matters based on this information in the form and context in which it appears.

The Mineral Resource Estimates (MRE) for the Kilba Tungsten Project were previously reported in accordance with Listing Rule 5.8 on 30 January 2015. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements and confirms that all material assumptions and technical parameters underpinning the Estimates continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.

The information in this announcement that relates to prior exploration results for the Kilba Tungsten Project was first reported to the ASX in accordance with ASX Listing Rule 5.7 on 12 October 2012, 8 February 2013, 16 April 2013, 7 October 2014 and 19 December 2014. The

Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement.

**Forward-looking statements**

This announcement may contain certain "forward-looking statements". Forward looking statements can generally be identified by the use of forward-looking words such as, "expect", "should", "could", "may", "predict", "plan", "will", "believe", "forecast", "estimate", "target" and other similar expressions. Indications of, and guidance on, future earnings and financial position and performance are also forward-looking statements. Forward-looking statements, opinions and estimates provided in this announcement are based on assumptions and contingencies which are subject to change without notice, as are statements about market and industry trends, which are based on interpretations of current market conditions. Forward-looking statements including projections, guidance on future earnings and estimates are provided as a general guide only and should not be relied upon as an indication or guarantee of future performance.

[i] International Tungsten Industry Association (https://www.itia.info/applications-markets/)
[ii] Mineral exploration reports (https://www.wa.gov.au/service/natural-resources/mineral-resources)
[ii] ASX:TGN: "Kilba Mineral Resource Update" 30 January 2015

**[#]Reference list of ASX announcements by Tungsten Mining NL (ASX:TGN) relating to Kilba Tungsten Project**

| 12/10/2012 | Tungsten Mining NL - Prospectus |
|---|---|
| 18/12/2012 | Drilling commences at the Kilba Project |
| 08/02/2013 | Significant intersect results at the Kilba Project |
| 16/04/2013 | Significant High Grade Intercepts at the Kilba Project |
| 28/05/2013 | Maiden JORC Resource at Kilba Project |
| 29/05/2013 | Maiden JORC Resource at Kilba - Image presentation corrected |
| 31/05/2013 | Amended Maiden Resource Announcement - 2012 JORC compliance |
| 05/06/2013 | BRR Webcast - Maiden JORC for Kilba |
| 12/06/2013 | Positive Scoping Study Results - Kilba Project |
| 19/06/2013 | Scoping Study Clarification |
| 24/10/2013 | Updates to Scoping Study Further Improve Prospects of Kilba |
| 30/10/2013 | Scoping Study Update Clarification |
| 12/08/2014 | TGN Commences Drilling at the Kilba Tungsten Project |
| 07/10/2014 | High Grade Tungsten Mineralisation at Kilba Project |
| 19/12/2014 | Successful infill drilling program at Kilba |
| 30/01/2015 | Kilba Mineral Resource Update |

**Appendix 1: Collar Table**

| Hole | Easting | Northing | RL m | Max Depth (m) | Dip | Azimuth | Hole Type |
|---|---|---|---|---|---|---|---|
| **DDH001** | 351244 | 7480076 | 159 | 26.6 | -90 | 0 | DD |
| **DDH002** | 350024 | 7479976 | 138 | 124.97 | -90 | 0 | DD |
| **DDH003** | 351439 | 7480053 | 163 | 78.03 | -60 | 340 | DD |
| **DDH004** | 350401 | 7479871 | 133 | 76.28 | -60 | 10 | DD |
| **DDH005** | 351342 | 7480234 | 195 | 49.99 | -90 | 0 | DD |
| **DDH006** | 351247 | 7479992 | 145 | 46.8 | -70 | 340 | DD |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **DDH007** | 349820 | 7480141 | 140 | 106.7 | -60 | 55 | DD |
| **DDH008** | 350721 | 7479913 | 136 | 76.6 | -70 | 360 | DD |
| **DDH009** | 349650 | 7480382 | 132 | 59.7 | -90 | 0 | DD |
| **DDH010** | 350413 | 7479922 | 134 | 53 | -60 | 10 | DD |
| **DDH011** | 350407 | 7479897 | 133 | 74 | -60 | 10 | DD |
| **DDH012** | 350389 | 7479820 | 132 | 137.3 | -60 | 10 | DD |
| **DDH013** | 350061 | 7480025 | 143 | 71.2 | -60 | 29 | DD |
| **DDH014** | 350035 | 7479994 | 139 | 62 | -60 | 29 | DD |
| **DDH015** | 349776 | 7480105 | 144 | 149.19 | -70 | 55 | DD |
| **DDH016** | 351413 | 7480092 | 167 | 24 | -70 | 340 | DD |
| **DDH017** | 351485 | 7479947 | 153 | 125 | -65 | 340 | DD |
| **DDH018** | 353143 | 7479595 | 149 | 139.9 | -60 | 340 | DD |
| **DDH019** | 350521 | 7479879 | 133 | 80 | -60 | 360 | DD |
| **DDH020** | 350582 | 7479878 | 134 | 98.47 | -60 | 360 | DD |
| **DDH021** | 350518 | 7479819 | 134 | 170.44 | -60 | 360 | DD |
| **DDH022** | 350376 | 7479766 | 133 | 59.86 | -60 | 10 | DD |
| **DDH023** | 351612 | 7480280 | 168 | 65.6 | -55 | 158 | DD |
| **DDH024** | 351612 | 7480280 | 168 | 92.41 | -80 | 158 | DD |
| **DDH025** | 351705 | 7480321 | 168 | 58.93 | -55 | 163.5 | DDNQ |
| **DDH027** | 350717 | 7481191 | 146 | 63 | -55 | 157 | DDNQ |
| **DDH028** | 350787 | 7481230 | 151 | 60 | -55 | 157 | DDNQ |
| **DDH029** | 350617 | 7481152 | 143 | 66.15 | -55 | 157.5 | DDNQ |
| **DDH030** | 350532 | 7481131 | 142 | 78.07 | -55 | 159 | DDNQ |
| **DDH031** | 350692 | 7481225 | 145 | 45 | -65 | 155 | DDNQ |
| **DDH032** | 349693 | 7480394 | 132 | 99 | -60 | 97 | DD |
| **KDD0001** | 350412 | 7479918 | 134 | 54.6 | -60 | 20 | DDHQ |
| **KDD0002** | 350384 | 7479851 | 133 | 106.7 | -60 | 20 | DDHQ |
| **KDD0003** | 350399 | 7479890 | 133 | 77 | -60 | 20 | DDHQ |
| **KDD0004** | 349751 | 7480091 | 145 | 179.2 | -60 | 35 | DDHQ |
| **KDD0005** | 349788 | 7480151 | 139 | 118.9 | -60 | 35 | DDHQ |
| **KDD0006** | 349832 | 7480143 | 140 | 123 | -60 | 35 | DDHQ |
| **KDD0007** | 350218 | 7479868 | 135 | 121.8 | -60 | 20 | DDHQ |
| **KDD0008** | 350245 | 7479942 | 134 | 60.5 | -60 | 20 | DDHQ |
| **KDD0009** | 349974 | 7480054 | 141 | 106.9 | -60 | 35 | DDHQ |
| **KDD0010** | 349927 | 7479989 | 143 | 171.3 | -60 | 35 | DDHQ |
| **KDD0011** | 350324 | 7479914 | 133 | 84.3 | -60 | 20 | DDHQ |
| **KDD0012** | 350296 | 7479840 | 133 | 149.4 | -60 | 20 | DDHQ |
| **KDD0013** | 350147 | 7479890 | 136 | 132.5 | -60 | 20 | DDHQ |
| **KDD0014** | 350071 | 7479921 | 138 | 135.7 | -60 | 20 | DDHQ |
| **KDD0015** | 350490 | 7479895 | 134 | 114.4 | -60 | 20 | DDHQ |
| **KDD0016** | 350410 | 7479917 | 134 | 65.8 | -90 | 0 | DDPQ |
| **KDD0017** | 350174 | 7479965 | 136 | 72.4 | -60 | 20 | DDHQ |
| **KDD0018** | 350100 | 7479996 | 140 | 87.4 | -60 | 20 | DDHQ |
| **KDD0019** | 349907 | 7480102 | 137 | 117.5 | -60 | 35 | DDHQ |

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|---|---|---|---|---|---|---|---|
| **KDD0020** | 349862 | 7480038 | 141 | 165.5 | -60 | 35 | DDHQ |
| **KDD0021** | 350085 | 7479956 | 136 | 108.7 | -60 | 20 | DDHQ |
| **KDD0022** | 349820 | 7480117 | 140 | 134.17 | -60 | 35 | DDHQ |
| **KDD0023** | 350310 | 7479875 | 133 | 102 | -60 | 20 | DDHQ |
| **KDD0024** | 350146 | 7479999 | 142 | 48.6 | -60 | 20 | DDHQ |
| **KDD0025** | 350475 | 7479857 | 133 | 147.6 | -60 | 20 | DDHQ |
| **KDD0026** | 350035 | 7480071 | 146 | 63.6 | -60 | 35 | DDHQ |
| **KDD0027** | 349757 | 7480290 | 133 | 45.35 | -60 | 75 | DDHQ |
| **KDD0028** | 350338 | 7479945 | 133 | 30 | -60 | 20 | DDHQ |
| **KDD0029** | 350639 | 7479903 | 135 | 38 | -60 | 0 | DDHQ |
| **KDD0030** | 350337 | 7479944 | 133 | 63.9 | -90 | 0 | DDPQ |
| **KDD0031** | 350093 | 7479981 | 138 | 65 | -90 | 0 | DDPQ |
| **KDD0032** | 350050 | 7480095 | 147 | 60 | -90 | 0 | DDPQ |
| **KDD0033** | 349853 | 7480166 | 136 | 70 | -90 | 0 | DDPQ |
| **KDD0034** | 349786 | 7480373 | 133 | 30.3 | -90 | 0 | DDPQ |
| **KDD0035** | 351630 | 7480285 | 170 | 59.2 | -50 | 140 | DDPQ |
| **KDD0036** | 351705 | 7480322 | 169 | 55.78 | -50 | 140.8 | DDPQ |
| **KDD0037** | 351556 | 7480221 | 172 | 60.5 | -60 | 140.8 | DDHQ |
| **KRC0001** | 350340 | 7479951 | 133 | 10 | -60 | 20 | RC |
| **KRC0002** | 350338 | 7479946 | 133 | 52 | -60 | 20 | RC |
| **KRC0003** | 350311 | 7479876 | 133 | 110 | -60 | 20 | RC |
| **KRC0004** | 350233 | 7479907 | 134 | 100 | -60 | 20 | RC |
| **KRC0005** | 350185 | 7480007 | 141 | 56 | -60 | 20 | RC |
| **KRC0006** | 350083 | 7479959 | 136 | 108 | -60 | 20 | RC |
| **KRC0007** | 350013 | 7479980 | 138 | 120 | -60 | 35 | RC |
| **KRC0008** | 349991 | 7479947 | 141 | 156 | -60 | 35 | RC |
| **KRC0009** | 349997 | 7480090 | 143 | 84 | -60 | 35 | RC |
| **KRC0010** | 349948 | 7480025 | 140 | 126 | -60 | 35 | RC |
| **KRC0011** | 349931 | 7480136 | 138 | 90 | -60 | 35 | RC |
| **KRC0012** | 349868 | 7480186 | 135 | 78 | -60 | 35 | RC |
| **KRC0013** | 349794 | 7480086 | 143 | 168 | -60 | 35 | RC |
| **KRC0014** | 349817 | 7480118 | 140 | 144 | -60 | 35 | RC |
| **KRC0015** | 349881 | 7480072 | 138 | 138 | -60 | 35 | RC |
| **KRC0016** | 350160 | 7479937 | 135 | 96 | -60 | 20 | RC |
| **KRC0017** | 350039 | 7480013 | 140 | 90 | -60 | 35 | RC |
| **KRC0018** | 350461 | 7479821 | 133 | 174 | -60 | 20 | RC |
| **KRC0019** | 349734 | 7480202 | 137 | 126 | -60 | 20 | RC |
| **KRC0020** | 349689 | 7480140 | 141 | 168 | -60 | 20 | RC |
| **KRC0021** | 350369 | 7479813 | 133 | 174 | -60 | 20 | RC |
| **KRC0022** | 350283 | 7479807 | 136 | 168 | -60 | 20 | RC |
| **KRC0023** | 349890 | 7480215 | 135 | 54 | -60 | 35 | RC |
| **KRC0024** | 350022 | 7480124 | 143 | 48 | -60 | 35 | RC |
| **KRC0025** | 350065 | 7480045 | 146 | 66 | -60 | 35 | RC |
| **KRC0026** | 350561 | 7479904 | 134 | 84 | -60 | 0 | RC |

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|---|---|---|---|---|---|---|---|
| **KRC0027** | 350641 | 7479905 | 135 | 66 | -60 | 0 | RC |
| **KRC0028** | 350800 | 7479862 | 136 | 102 | -60 | 0 | RC |
| **KRC0029** | 350803 | 7479781 | 136 | 138 | -60 | 0 | RC |
| **KRC0030** | 349976 | 7480202 | 138 | 36 | -60 | 35 | RC |
| **KRC0031** | 349953 | 7480174 | 139 | 54 | -60 | 35 | RC |
| **KRC0032** | 349804 | 7480301 | 133 | 30 | -60 | 75 | RC |
| **KRC0032B** | 349807 | 7480301 | 133 | 84 | -60 | 75 | RC |
| **KRC0033** | 349726 | 7480282 | 134 | 114 | -60 | 75 | RC |
| **KRC0034** | 349762 | 7480456 | 133 | 66 | -60 | 75 | RC |
| **KRC0035** | 349686 | 7480435 | 132 | 100 | -60 | 75 | RC |
| **KRC0036** | 350642 | 7479826 | 134 | 132 | -60 | 0 | RC |
| **KRC0037** | 350560 | 7479823 | 134 | 142 | -60 | 0 | RC |
| **KRC0038** | 349863 | 7480040 | 141 | 168 | -75 | 35 | RC |
| **KRC0039** | 349723 | 7480444 | 132 | 84 | -60 | 75 | RC |
| **KRC0040** | 349762 | 7480291 | 133 | 90 | -60 | 75 | RC |
| **KRC0041** | 349704 | 7480360 | 132 | 87 | -60 | 75 | RC |
| **KRC0042** | 349779 | 7480368 | 133 | 78 | -60 | 75 | RC |
| **KRC0043** | 350407 | 7479906 | 133 | 65 | -60 | 20 | RC |
| **KRC0044** | 350394 | 7479871 | 133 | 84 | -60 | 20 | RC |
| **KRC0045** | 350370 | 7479918 | 133 | 60 | -60 | 20 | RC |
| **KRC0046** | 350356 | 7479882 | 133 | 90 | -60 | 20 | RC |
| **KRC0047** | 350342 | 7479842 | 133 | 120 | -60 | 20 | RC |
| **KRC0048** | 350457 | 7479927 | 136 | 44 | -60 | 20 | RC |
| **KRC0049** | 350444 | 7479890 | 133 | 70 | -60 | 20 | RC |
| **KRC0050** | 350430 | 7479852 | 133 | 102 | -60 | 20 | RC |
| **KRC0051** | 350498 | 7479912 | 135 | 48 | -60 | 20 | RC |
| **KRC0052** | 350481 | 7479876 | 133 | 72 | -60 | 20 | RC |
| **KRC0053** | 350461 | 7479820 | 133 | 138 | -50 | 20 | RC |
| **KRC0054** | 350520 | 7479901 | 134 | 54 | -60 | 0 | RC |
| **KRC0055** | 350520 | 7479860 | 134 | 96 | -60 | 0 | RC |
| **KRC0056** | 350561 | 7479864 | 134 | 100 | -60 | 0 | RC |
| **KRC0057** | 350333 | 7479931 | 133 | 66 | -60 | 20 | RC |
| **KRC0058** | 350294 | 7479946 | 134 | 54 | -60 | 20 | RC |
| **KRC0059** | 350281 | 7479909 | 133 | 84 | -60 | 20 | RC |
| **KRC0060** | 350267 | 7479871 | 134 | 115 | -60 | 20 | RC |
| **KRC0061** | 350155 | 7480036 | 148 | 36 | -60 | 20 | RC |
| **KRC0062** | 350144 | 7480001 | 142 | 54 | -60 | 20 | RC |
| **KRC0063** | 350130 | 7479962 | 137 | 75 | -60 | 20 | RC |
| **KRC0064** | 350116 | 7479925 | 135 | 104 | -60 | 20 | RC |
| **KRC0065** | 350086 | 7480078 | 152 | 44 | -60 | 35 | RC |
| **KRC0066** | 350059 | 7480107 | 146 | 30 | -60 | 35 | RC |
| **KRC0067** | 350035 | 7480073 | 146 | 66 | -60 | 35 | RC |
| **KRC0068** | 350017 | 7480051 | 143 | 84 | -60 | 35 | RC |
| **KRC0069** | 349994 | 7480018 | 140 | 104 | -60 | 35 | RC |

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|---|---|---|---|---|---|---|---|
| **KRC0070** | 351631 | 7480282 | 169 | 100 | -50 | 140 | RC |
| **KRC0071** | 351614 | 7480300 | 173 | 95 | -55 | 140 | RC |
| **KRC0072** | 351704 | 7480319 | 169 | 100 | -50 | 140 | RC |
| **KRC0073** | 351624 | 7480287 | 170 | 126 | -90 | 0 | RC |
| **KRC0074** | 351678 | 7480351 | 179 | 110 | -60 | 140.8 | RC |
| **KRC0075** | 351557 | 7480223 | 172 | 100 | -60 | 140.8 | RC |
| **KRC0076** | 351547 | 7480243 | 174 | 95 | -60 | 140.8 | RC |
| **KRC0077** | 350835 | 7481240 | 158 | 80 | -60 | 155.8 | RC |
| **KRC0078** | 350818 | 7481278 | 154 | 126 | -60 | 155.8 | RC |
| **KRC0079** | 350794 | 7481211 | 153 | 80 | -60 | 155.8 | RC |
| **KRC0080** | 350779 | 7481243 | 148 | 90 | -60 | 155.8 | RC |
| **KRC0081** | 350718 | 7481185 | 146 | 66 | -50 | 155.8 | RC |
| **KRC0082** | 350701 | 7481221 | 145 | 96 | -60 | 155.8 | RC |
| **KRC0083** | 350640 | 7481161 | 143 | 76 | -60 | 155.8 | RC |
| **KRC0084** | 350624 | 7481198 | 145 | 119 | -60 | 155.8 | RC |
| **KRC0085** | 349997 | 7480159 | 140 | 36 | -60 | 35.8 | RC |
| **KRC0086** | 349974 | 7480125 | 141 | 54 | -60 | 35.8 | RC |
| **KRC0087** | 349953 | 7480096 | 139 | 66 | -60 | 35.8 | RC |
| **KRC0088** | 349928 | 7480063 | 138 | 120 | -60 | 35.8 | RC |
| **KRC0089** | 350220 | 7479974 | 137 | 45 | -60 | 20.8 | RC |
| **KRC0090** | 350205 | 7479935 | 135 | 75 | -60 | 20.8 | RC |
| **KRC0091** | 350192 | 7479899 | 134 | 105 | -60 | 20.8 | RC |
| **KRC0092** | 350124 | 7480066 | 154 | 30 | -60 | 20.8 | RC |
| **KRC0093** | 350109 | 7480026 | 146 | 52 | -60 | 20.8 | RC |
| **KRC0094** | 350621 | 7481197 | 145 | 108 | -80 | 155.8 | RC |
| **KRC0095** | 349951 | 7480096 | 139 | 96 | -60 | 35.8 | RC |
| **KRC0096** | 351602 | 7480255 | 163 | 66 | -60 | 140 | RC |
| **KRC0097** | 351588 | 7480273 | 167 | 100 | -60 | 140 | RC |
| **KRC0098** | 351666 | 7480303 | 172 | 80 | -60 | 140 | RC |
| **KRC0099** | 351652 | 7480320 | 176 | 110 | -70 | 140 | RC |
| **KRC0100** | 351738 | 7480342 | 166 | 65 | -60 | 140 | RC |
| **KRC0101** | 351715 | 7480368 | 174 | 100 | -60 | 140 | RC |
| **KRC0102** | 351566 | 7480204 | 172 | 45 | -60 | 140 | RC |
| **KRC0103** | 351545 | 7480199 | 176 | 45 | -60 | 140 | RC |
| **KRC0104** | 351531 | 7480215 | 178 | 72 | -60 | 140 | RC |
| **KRC0105** | 351502 | 7480241 | 189 | 105 | -60 | 140 | RC |
| **KRC0106** | 350451 | 7479908 | 134 | 65 | -60 | 20 | RC |
| **KRC0107** | 349933 | 7480206 | 136 | 48 | -60 | 35 | RC |
| **KRC0108** | 349881 | 7480001 | 143 | 168 | -60 | 35 | RC |
| **KRC0109** | 349910 | 7480173 | 136 | 80 | -60 | 35 | RC |
| **KRC0110** | 349883 | 7480142 | 136 | 100 | -60 | 35 | RC |
| **KRC0111** | 349861 | 7480110 | 138 | 120 | -60 | 35 | RC |
| **KRC0112** | 349840 | 7480078 | 139 | 144 | -60 | 35 | RC |
| **KRC0113** | 349817 | 7480044 | 142 | 168 | -60 | 35 | RC |

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|---|---|---|---|---|---|---|---|
| **KRC0114** | 349845 | 7480220 | 134 | 70 | -60 | 35 | RC |
| **KRC0115** | 349820 | 7480186 | 137 | 90 | -60 | 35 | RC |
| **KRC0116** | 349820 | 7480430 | 136 | 35 | -60 | 75 | RC |
| **KRC0117** | 349780 | 7480419 | 134 | 75 | -60 | 75 | RC |
| **KRC0118** | 349745 | 7480409 | 133 | 78 | -60 | 75 | RC |
| **KRC0119** | 349813 | 7480386 | 135 | 60 | -60 | 75 | RC |
| **KRC0120** | 349740 | 7480367 | 132 | 90 | -60 | 75 | RC |
| **KRC0121** | 349848 | 7480355 | 135 | 48 | -60 | 75 | RC |
| **KRC0122** | 349810 | 7480345 | 133 | 65 | -60 | 75 | RC |
| **KRC0123** | 349771 | 7480334 | 133 | 84 | -60 | 75 | RC |
| **KRC0124** | 349734 | 7480324 | 132 | 95 | -60 | 75 | RC |
| **KRC0125** | 349780 | 7480499 | 132 | 30 | -60 | 75 | RC |
| **KRC0126** | 349741 | 7480491 | 132 | 60 | -60 | 75 | RC |
| **KRC0127** | 349702 | 7480480 | 132 | 70 | -60 | 75 | RC |
| **KRC0128** | 349800 | 7480463 | 133 | 42 | -60 | 75 | RC |
| **KRC0129** | 349839 | 7480311 | 133 | 25 | -60 | 75 | RC |
| **KRC0130** | 349823 | 7480259 | 134 | 78 | -60 | 35 | RC |
| **KRC0131** | 349800 | 7480228 | 135 | 90 | -60 | 35 | RC |
| **KRC0132** | 349776 | 7480194 | 137 | 112 | -60 | 35 | RC |
| **KRC0133** | 349754 | 7480164 | 139 | 120 | -60 | 35 | RC |
| **KRC0134** | 349731 | 7480128 | 142 | 148 | -60 | 35 | RC |
| **KRC0135** | 349776 | 7480124 | 142 | 132 | -60 | 35 | RC |
| **KRC0136** | 349754 | 7480235 | 135 | 108 | -60 | 35 | RC |
| **KRC0137** | 349912 | 7480248 | 136 | 35 | -60 | 35 | RC |
| **KRC0138** | 349905 | 7480031 | 139 | 136 | -60 | 35 | RC |
| **KRC0139** | 349970 | 7479986 | 140 | 130 | -60 | 35 | RC |
| **KRC0140** | 350438 | 7479871 | 133 | 76 | -60 | 20 | RC |
| **KRC0141** | 350436 | 7479824 | 133 | 140 | -60 | 20 | RC |
| **KRC0142** | 350290 | 7479927 | 134 | 65 | -60 | 20 | RC |
| **KRC0143** | 350274 | 7479889 | 134 | 100 | -60 | 20 | RC |
| **KRC0144** | 350259 | 7479851 | 135 | 130 | -60 | 20 | RC |
| **KRC0145** | 350521 | 7479880 | 133 | 72 | -60 | 0 | RC |
| **KRC0146** | 350373 | 7479935 | 134 | 48 | -60 | 20 | RC |
| **KRC0147** | 350364 | 7479899 | 133 | 65 | -60 | 20 | RC |
| **KRC0148** | 350044 | 7480157 | 143 | 20 | -60 | 35 | RC |
| **KRC0149** | 349867 | 7480250 | 135 | 54 | -60 | 35 | RC |
| **KRC0150** | 349835 | 7480275 | 134 | 65 | -60 | 35 | RC |
| **KRC0151** | 349791 | 7480339 | 133 | 30 | -60 | 75 | RC |
| **KRC0152** | 351771 | 7480366 | 163 | 65 | -60 | 140 | RC |
| **KRC0153** | 351745 | 7480398 | 173 | 102 | -60 | 140 | RC |
| **KRC0154** | 351703 | 7480318 | 169 | 70 | -75 | 140 | RC |
| **KRC0155** | 351735 | 7480345 | 166 | 66 | -75 | 140 | RC |
| **KRC0156** | 351511 | 7480170 | 179 | 48 | -60 | 140 | RC |
| **KRC0157** | 351487 | 7480203 | 187 | 84 | -60 | 140 | RC |

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|---|---|---|---|---|---|---|---|
| **T5** | 349882 | 7480355 | 136 | 80 | 0 | 91.8 | Trench |
| **T7** | 350523 | 7479938 | 136 | 30 | -5 | 180 | Trench |
| **T8** | 350152 | 7480098 | 153 | 91 | 0 | 212.6 | Trench |
| **T10** | 350433 | 7479969 | 139 | 41 | -3.5 | 221 | Trench |
| **T11** | 349927 | 7480204 | 136 | 44 | 0 | 228 | Trench |

All Co-ordinates reported in MGA94_Z50

**Appendix 2 : Significant Drill holes assays (>0.10% $WO_3$)**

| Hole | From (m) | To (m) | Interval (m) | $WO_3$ (%) |
|---|---|---|---|---|
| **DDH001** | | | NSI | |
| **DDH002** | 74.01 | 74.98 | 0.97 | 0.31 |
| **DDH002** | 79.55 | 81.08 | 1.53 | 0.2 |
| **DDH004** | 63.09 | 64.52 | 1.43 | 0.55 |
| **DDH004** | 66.34 | 67.49 | 1.15 | 0.68 |
| **DDH004** | 67.49 | 68.33 | 0.84 | 4.26 |
| **DDH004** | 70.41 | 70.74 | 0.33 | 2.18 |
| **DDH005** | | | NSI | |
| **DDH006** | | | NSI | |
| **DDH006** | | | NSI | |
| **DDH007** | 59.97 | 60.4 | 0.43 | 2.24 |
| **DDH007** | 61.01 | 61.34 | 0.33 | 1.39 |
| **DDH007** | 61.34 | 61.85 | 0.51 | 0.5 |
| **DDH007** | 61.85 | 62.2 | 0.35 | 6.1 |
| **DDH007** | 63.17 | 63.42 | 0.25 | 2.37 |
| **DDH007** | 70.1 | 70.4 | 0.3 | 0.94 |
| **DDH007** | 71.8 | 72.1 | 0.3 | 0.79 |
| **DDH007** | 85.37 | 87.05 | 1.68 | 0.12 |
| **DDH008** | | | NSI | |
| **DDH009** | | | NSI | |
| **DDH010** | 3.4 | 4.3 | 0.9 | 0.18 |
| **DDH010** | 8.4 | 10 | 1.6 | 0.22 |
| **DDH010** | 13 | 14.28 | 1.28 | 0.14 |
| **DDH010** | 16.6 | 17.6 | 1 | 0.38 |
| **DDH010** | 34 | 34.4 | 0.4 | 0.26 |
| **DDH011** | 34.47 | 34.95 | 0.48 | 0.63 |
| **DDH011** | 35.73 | 36.19 | 0.46 | 1.5 |
| **DDH011** | 39.24 | 39.54 | 0.3 | 1.43 |
| **DDH011** | 41.86 | 42.59 | 0.73 | 2.14 |
| **DDH011** | 43.02 | 44.01 | 0.99 | 2.01 |
| **DDH011** | 44.01 | 46.05 | 2.04 | 0.12 |
| **DDH011** | 46.05 | 46.85 | 0.8 | 0.68 |
| **DDH011** | 48.41 | 48.71 | 0.3 | 0.16 |
| **DDH011** | 59.7 | 61.2 | 1.5 | 0.17 |
| **DDH012** | 110.01 | 110.86 | 0.85 | 0.67 |
| **DDH012** | 110.86 | 111.37 | 0.51 | 1.32 |
| **DDH012** | 111.37 | 111.8 | 0.43 | 0.13 |
| **DDH012** | 111.8 | 112.7 | 0.9 | 0.39 |
| **DDH012** | 113.35 | 113.65 | 0.3 | 1.74 |
| **DDH013** | 12.39 | 13.65 | 1.26 | 0.14 |

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|---|---|---|---|---|
| **DDH013** | 20.38 | 21.68 | 1.3 | 0.57 |
| **DDH014** | 49.45 | 50.46 | 1.01 | 0.19 |
| **DDH014** | 51.9 | 52.5 | 0.6 | 0.23 |
| **DDH014** | 55.58 | 56.25 | 0.67 | 0.21 |
| **DDH015** | 65.6 | 66.3 | 0.7 | 0.72 |
| **DDH015** | 99.5 | 99.93 | 0.43 | 4.18 |
| **DDH015** | 100.74 | 101.1 | 0.36 | 0.22 |
| **DDH015** | 105.73 | 106.39 | 0.66 | 1.28 |
| **DDH015** | 106.39 | 107.15 | 0.76 | 0.19 |
| **DDH016** | | | NSI | |
| **DDH017** | | | NSI | |
| **DDH018** | | | NSI | |
| **DDH019** | 52.55 | 53.48 | 0.93 | 0.64 |
| **DDH019** | 54.48 | 55.6 | 1.12 | 0.19 |
| **DDH019** | 56.26 | 56.87 | 0.61 | 0.52 |
| **DDH019** | 59.6 | 60.52 | 0.92 | 0.62 |
| **DDH019** | 61.17 | 61.54 | 0.37 | 0.69 |
| **DDH019** | 61.54 | 62.46 | 0.92 | 17.2 |
| **DDH019** | 62.46 | 62.77 | 0.31 | 0.96 |
| **DDH020** | | | NSI | |
| **DDH021** | | | NSI | |
| **DDH022** | | | NSI | |
| **DDH023** | 34 | 35 | 1 | 0.857 |
| **DDH023** | 35 | 36.5 | 1.5 | 0.132 |
| **DDH023** | 48.6 | 50.3 | 1.7 | 1.87 |
| **DDH023** | 50.3 | 51.35 | 1.05 | 0.183 |
| **DDH023** | 54.5 | 55.7 | 1.2 | 0.996 |
| **DDH023** | 56.9 | 57.5 | 0.6 | 5.25 |
| **DDH024** | 55 | 56 | 1 | 0.126 |
| **DDH025** | 15 | 16 | 1 | 0.252 |
| **DDH025** | 31.5 | 32.5 | 1 | 0.177 |
| **DDH025** | 39 | 40 | 1 | 1.135 |
| **DDH025** | 40 | 41 | 1 | 0.183 |
| **DDH025** | 41 | 42 | 1 | 0.121 |
| **DDH025** | 42 | 43 | 1 | 0.301 |
| **DDH025** | 43 | 44.1 | 1.1 | 0.189 |
| **DDH025** | 48.8 | 50 | 1.2 | 0.757 |
| **DDH026** | | | NSI | |
| **DDH027** | 14.3 | 15.1 | 0.8 | 0.466 |
| **DDH027** | 47 | 48 | 1 | 0.347 |
| **DDH027** | 48 | 49 | 1 | 0.202 |
| **DDH027** | 49 | 49.5 | 0.5 | 0.139 |
| **DDH028** | 48.65 | 49.65 | 1 | 0.183 |
| **DDH028** | 51.45 | 53 | 1.55 | 0.391 |
| **DDH028** | 53 | 54 | 1 | 0.103 |
| **DDH028** | 55.5 | 56.05 | 0.55 | 0.643 |
| **DDH029** | 12.2 | 13.2 | 1 | 0.195 |
| **DDH029** | 13.2 | 14.2 | 1 | 0.612 |
| **DDH029** | 14.2 | 15 | 0.8 | 0.126 |
| **DDH030** | 6 | 6.7 | 0.7 | 0.227 |

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|---|---|---|---|---|
| **DDH030** | 63.5 | 64.5 | 1 | 0.208 |
| **DDH030** | 68 | 69 | 1 | 0.121 |
| **DDH032** | 54 | 55 | 1 | 0.13 |
| **DDH032** | 83 | 84.2 | 1.2 | 0.23 |
| **DDH032** | 90.45 | 91.65 | 1.2 | 0.11 |
| **DDH032** | 93.15 | 93.85 | 0.7 | 0.39 |
| **KDD0001** | 9.9 | 10.2 | 0.3 | 1.714 |
| **KDD0001** | 10.6 | 10.9 | 0.3 | 0.926 |
| **KDD0001** | 11.6 | 12.6 | 1 | 2.078 |
| **KDD0001** | 12.6 | 13.15 | 0.55 | 0.383 |
| **KDD0001** | 15 | 15.6 | 0.6 | 0.299 |
| **KDD0001** | 18 | 19.1 | 1.1 | 0.126 |
| **KDD0001** | 19.1 | 19.6 | 0.5 | 0.378 |
| **KDD0001** | 34.95 | 35.25 | 0.3 | 0.835 |
| **KDD0002** | 70.6 | 71.1 | 0.5 | 0.566 |
| **KDD0002** | 79.1 | 79.4 | 0.3 | 0.19 |
| **KDD0002** | 82.8 | 83.2 | 0.4 | 0.66 |
| **KDD0002** | 83.2 | 83.9 | 0.7 | 1.576 |
| **KDD0002** | 83.9 | 84.3 | 0.4 | 0.531 |
| **KDD0002** | 84.7 | 85.8 | 1.1 | 0.38 |
| **KDD0002** | 85.8 | 86.6 | 0.8 | 1.581 |
| **KDD0002** | 89.3 | 90.2 | 0.9 | 5.118 |
| **KDD0002** | 94.1 | 94.7 | 0.6 | 1.002 |
| **KDD0003** | 42.5 | 42.9 | 0.4 | 0.436 |
| **KDD0003** | 42.9 | 43.5 | 0.6 | 3.762 |
| **KDD0003** | 43.5 | 44.2 | 0.7 | 0.968 |
| **KDD0003** | 44.2 | 44.75 | 0.55 | 3.042 |
| **KDD0003** | 44.75 | 46.1 | 1.35 | 0.253 |
| **KDD0003** | 47.2 | 48 | 0.8 | 0.839 |
| **KDD0003** | 48 | 48.6 | 0.6 | 0.656 |
| **KDD0003** | 48.6 | 49.1 | 0.5 | 1.244 |
| **KDD0003** | 49.1 | 49.4 | 0.3 | 3.359 |
| **KDD0003** | 49.4 | 50.5 | 1.1 | 1.279 |
| **KDD0003** | 50.5 | 51.6 | 1.1 | 0.253 |
| **KDD0003** | 51.6 | 52.3 | 0.7 | 0.102 |
| **KDD0003** | 54.01 | 54.5 | 0.49 | 0.359 |
| **KDD0003** | 54.5 | 55.15 | 0.65 | 1.902 |
| **KDD0003** | 55.15 | 56 | 0.85 | 0.386 |
| **KDD0003** | 56 | 57 | 1 | 0.114 |
| **KDD0003** | 62.55 | 63.2 | 0.65 | 0.606 |
| **KDD0004** | 120.45 | 120.9 | 0.45 | 3.257 |
| **KDD0004** | 120.9 | 121.2 | 0.3 | 0.475 |
| **KDD0004** | 124 | 125 | 1 | 0.112 |
| **KDD0004** | 142 | 143 | 1 | 0.999 |
| **KDD0004** | 168.7 | 169.8 | 1.1 | 0.456 |
| **KDD0005** | 31.6 | 31.8 | 0.2 | 0.135 |
| **KDD0005** | 59.3 | 59.55 | 0.25 | 0.474 |
| **KDD0005** | 60.3 | 61 | 0.7 | 0.82 |
| **KDD0005** | 71.1 | 71.5 | 0.4 | 0.201 |
| **KDD0005** | 74 | 75 | 1 | 0.133 |

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|---|---|---|---|---|
| **KDD0005** | 91.5 | 92 | 0.5 | 0.345 |
| **KDD0006** | 8.62 | 9.14 | 0.52 | 0.329 |
| **KDD0006** | 9.4 | 9.5 | 0.1 | 1.08 |
| **KDD0006** | 27.85 | 27.97 | 0.12 | 0.383 |
| **KDD0006** | 31.63 | 31.71 | 0.08 | 0.915 |
| **KDD0006** | 33 | 34 | 1 | 0.205 |
| **KDD0006** | 43 | 44 | 1 | 0.218 |
| **KDD0006** | 47 | 48 | 1 | 0.127 |
| **KDD0006** | 49.97 | 50.2 | 0.23 | 0.312 |
| **KDD0006** | 50.2 | 50.37 | 0.17 | 0.275 |
| **KDD0006** | 50.37 | 50.57 | 0.2 | 1.59 |
| **KDD0006** | 51 | 52 | 1 | 0.11 |
| **KDD0006** | 54 | 54.87 | 0.87 | 0.278 |
| **KDD0006** | 54.87 | 55 | 0.13 | 0.325 |
| **KDD0006** | 55 | 56.02 | 1.02 | 2.55 |
| **KDD0006** | 56.02 | 56.37 | 0.35 | 0.195 |
| **KDD0006** | 56.51 | 57 | 0.49 | 4.63 |
| **KDD0006** | 57 | 58.05 | 1.05 | 4.31 |
| **KDD0006** | 61.41 | 61.74 | 0.33 | 1.97 |
| **KDD0006** | 61.74 | 62 | 0.26 | 0.738 |
| **KDD0006** | 62 | 63 | 1 | 0.114 |
| **KDD0006** | 64 | 64.43 | 0.43 | 1.07 |
| **KDD0006** | 71 | 72 | 1 | 0.172 |
| **KDD0006** | 75 | 75.21 | 0.21 | 0.112 |
| **KDD0006** | 93 | 94 | 1 | 0.115 |
| **KDD0006** | 94 | 94.32 | 0.32 | 0.42 |
| **KDD0007** | 89.84 | 90.58 | 0.74 | 0.387 |
| **KDD0007** | 95 | 96.14 | 1.14 | 0.106 |
| **KDD0007** | 100.95 | 101.63 | 0.68 | 1.288 |
| **KDD0007** | 101.63 | 102.35 | 0.72 | 0.505 |
| **KDD0007** | 104.2 | 105 | 0.8 | 0.138 |
| **KDD0008** | | | NSI | |
| **KDD0009** | 35.4 | 36.2 | 0.8 | 0.11 |
| **KDD0009** | 40.7 | 41.75 | 1.05 | 0.342 |
| **KDD0009** | 42 | 42.7 | 0.7 | 0.329 |
| **KDD0009** | 56 | 56.45 | 0.45 | 0.154 |
| **KDD0009** | 73.4 | 74.15 | 0.75 | 1.93 |
| **KDD0009** | 74.98 | 75.7 | 0.72 | 0.419 |
| **KDD0010** | 33.52 | 33.7 | 0.18 | 0.258 |
| **KDD0010** | 99.48 | 99.71 | 0.23 | 0.323 |
| **KDD0010** | 103.11 | 103.28 | 0.17 | 0.525 |
| **KDD0010** | 104.72 | 105.12 | 0.4 | 0.116 |
| **KDD0010** | 106.45 | 106.75 | 0.3 | 0.734 |
| **KDD0010** | 107.57 | 107.82 | 0.25 | 0.676 |
| **KDD0010** | 108.19 | 109.23 | 1.04 | 0.158 |
| **KDD0010** | 111.46 | 111.86 | 0.4 | 0.183 |
| **KDD0010** | 111.86 | 112.2 | 0.34 | 0.173 |
| **KDD0010** | 112.43 | 112.54 | 0.11 | 0.135 |
| **KDD0010** | 116.7 | 117.45 | 0.75 | 1.76 |
| **KDD0010** | 120.69 | 121.29 | 0.6 | 0.891 |

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|---|---|---|---|---|
| **KDD0010** | 123.46 | 124.01 | 0.55 | 0.794 |
| **KDD0010** | 124.66 | 125.66 | 1 | 0.552 |
| **KDD0010** | 127 | 127.51 | 0.51 | 0.218 |
| **KDD0010** | 136.34 | 137.21 | 0.87 | 0.309 |
| **KDD0010** | 137.21 | 137.71 | 0.5 | 0.419 |
| **KDD0010** | 138 | 138.92 | 0.92 | 0.49 |
| **KDD0010** | 140.12 | 140.43 | 0.31 | 0.276 |
| **KDD0011** | 32.65 | 32.8 | 0.15 | 0.588 |
| **KDD0011** | 36.3 | 37.3 | 1 | 2.16 |
| **KDD0011** | 37.3 | 37.8 | 0.5 | 1.07 |
| **KDD0011** | 43.4 | 43.55 | 0.15 | 0.287 |
| **KDD0011** | 43.95 | 44.58 | 0.63 | 0.319 |
| **KDD0011** | 46.46 | 47.37 | 0.91 | 1.19 |
| **KDD0011** | 47.37 | 48 | 0.63 | 0.425 |
| **KDD0011** | 48.2 | 48.5 | 0.3 | 0.676 |
| **KDD0011** | 57.56 | 58.1 | 0.54 | 0.16 |
| **KDD0011** | 59.8 | 60.35 | 0.55 | 0.315 |
| **KDD0011** | 60.55 | 61 | 0.45 | 1.08 |
| **KDD0011** | 61.17 | 61.38 | 0.21 | 0.326 |
| **KDD0011** | 62 | 63 | 1 | 0.505 |
| **KDD0012** | 105 | 105.42 | 0.42 | 0.972 |
| **KDD0012** | 107 | 107.6 | 0.6 | 1.26 |
| **KDD0012** | 110 | 110.5 | 0.5 | 0.408 |
| **KDD0012** | 113.25 | 113.66 | 0.41 | 0.515 |
| **KDD0012** | 115.75 | 116.12 | 0.37 | 0.227 |
| **KDD0012** | 118.13 | 118.86 | 0.73 | 0.219 |
| **KDD0012** | 118.88 | 119.19 | 0.31 | 2.35 |
| **KDD0012** | 119.19 | 119.42 | 0.23 | 0.129 |
| **KDD0012** | 119.42 | 119.66 | 0.24 | 0.679 |
| **KDD0012** | 120.46 | 120.75 | 0.29 | 0.296 |
| **KDD0012** | 121.07 | 121.63 | 0.56 | 0.591 |
| **KDD0012** | 121.63 | 122.33 | 0.7 | 0.652 |
| **KDD0012** | 124.29 | 124.73 | 0.44 | 0.826 |
| **KDD0012** | 126.3 | 126.42 | 0.12 | 0.149 |
| **KDD0012** | 127.38 | 128.24 | 0.86 | 0.861 |
| **KDD0012** | 129.86 | 130.35 | 0.49 | 0.496 |
| **KDD0013** | 60.55 | 60.62 | 0.07 | 0.552 |
| **KDD0013** | 77.04 | 77.2 | 0.16 | 0.107 |
| **KDD0013** | 78.59 | 78.67 | 0.08 | 0.106 |
| **KDD0013** | 80.15 | 80.51 | 0.36 | 0.205 |
| **KDD0013** | 82.18 | 82.33 | 0.15 | 0.223 |
| **KDD0013** | 87.76 | 88.63 | 0.87 | 0.535 |
| **KDD0013** | 88.63 | 89.1 | 0.47 | 0.27 |
| **KDD0013** | 90.34 | 90.49 | 0.15 | 0.619 |
| **KDD0013** | 90.74 | 91 | 0.26 | 0.171 |
| **KDD0013** | 96.77 | 97 | 0.23 | 0.329 |
| **KDD0013** | 97.55 | 97.88 | 0.33 | 1.13 |
| **KDD0013** | 98.11 | 98.73 | 0.62 | 0.243 |
| **KDD0014** | 80.7 | 81.3 | 0.6 | 0.269 |
| **KDD0014** | 81.3 | 82 | 0.7 | 0.116 |

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|---|---|---|---|---|
| **KDD0014** | 84 | 85.09 | 1.09 | 0.121 |
| **KDD0014** | 90.54 | 91 | 0.46 | 0.568 |
| **KDD0014** | 91.7 | 92.5 | 0.8 | 0.136 |
| **KDD0014** | 92.5 | 93.57 | 1.07 | 0.16 |
| **KDD0015** | 32 | 33 | 1 | 0.475 |
| **KDD0016** | 23.5 | 23.95 | 0.45 | 0.189 |
| **KDD0016** | 23.95 | 24.25 | 0.3 | 0.716 |
| **KDD0016** | 24.25 | 24.7 | 0.45 | 1.062 |
| **KDD0016** | 24.7 | 25 | 0.3 | 0.752 |
| **KDD0016** | 25 | 25.65 | 0.65 | 0.456 |
| **KDD0016** | 25.65 | 26.25 | 0.6 | 0.993 |
| **KDD0016** | 26.25 | 26.75 | 0.5 | 0.134 |
| **KDD0016** | 26.75 | 26.93 | 0.18 | 0.218 |
| **KDD0016** | 33.4 | 34.09 | 0.69 | 0.268 |
| **KDD0016** | 36.55 | 37 | 0.45 | 0.12 |
| **KDD0016** | 37 | 37.35 | 0.35 | 0.819 |
| **KDD0016** | 37.35 | 37.7 | 0.35 | 0.136 |
| **KDD0016** | 37.7 | 38 | 0.3 | 0.824 |
| **KDD0016** | 38 | 38.4 | 0.4 | 0.587 |
| **KDD0016** | 39 | 39.6 | 0.6 | 0.543 |
| **KDD0016** | 39.6 | 40 | 0.4 | 1.07 |
| **KDD0016** | 40.3 | 41 | 0.7 | 0.432 |
| **KDD0016** | 41 | 41.3 | 0.3 | 0.808 |
| **KDD0016** | 41.3 | 41.5 | 0.2 | 0.404 |
| **KDD0016** | 41.5 | 42 | 0.5 | 0.386 |
| **KDD0016** | 42 | 42.5 | 0.5 | 0.279 |
| **KDD0016** | 43 | 43.5 | 0.5 | 0.178 |
| **KDD0016** | 43.5 | 43.75 | 0.25 | 0.162 |
| **KDD0016** | 44.65 | 45.5 | 0.85 | 0.131 |
| **KDD0016** | 45.5 | 46.3 | 0.8 | 0.119 |
| **KDD0017** | 33 | 34 | 1 | 0.151 |
| **KDD0017** | 34 | 35 | 1 | 0.277 |
| **KDD0017** | 36.2 | 36.8 | 0.6 | 0.297 |
| **KDD0017** | 45.9 | 46.2 | 0.3 | 0.115 |
| **KDD0018** | 19.8 | 20.8 | 1 | 1.15 |
| **KDD0018** | 20.8 | 22 | 1.2 | 1.37 |
| **KDD0018** | 23 | 23.45 | 0.45 | 1.01 |
| **KDD0018** | 32.8 | 33.5 | 0.7 | 0.123 |
| **KDD0019** | 22 | 23 | 1 | 0.154 |
| **KDD0019** | 34 | 35 | 1 | 0.15 |
| **KDD0019** | 36 | 37 | 1 | 0.108 |
| **KDD0019** | 42 | 43 | 1 | 1.11 |
| **KDD0019** | 46 | 47 | 1 | 0.133 |
| **KDD0019** | 85 | 85.9 | 0.9 | 0.23 |
| **KDD0019** | 85.9 | 86.7 | 0.8 | 0.699 |
| **KDD0019** | 87 | 88 | 1 | 0.321 |
| **KDD0019** | 88 | 89 | 1 | 0.147 |
| **KDD0019** | 89 | 90 | 1 | 0.262 |
| **KDD0019** | 91 | 92 | 1 | 0.407 |
| **KDD0019** | 96 | 97 | 1 | 0.474 |

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|---|---|---|---|---|
| **KDD0019** | 97 | 98 | 1 | 0.189 |
| **KDD0019** | 98 | 99 | 1 | 0.244 |
| **KDD0019** | 99 | 100 | 1 | 0.577 |
| **KDD0019** | 100 | 100.9 | 0.9 | 0.108 |
| **KDD0019** | 100.9 | 101.6 | 0.7 | 2.02 |
| **KDD0020** | 121.7 | 122.2 | 0.5 | 0.33 |
| **KDD0020** | 134 | 135 | 1 | 1.1 |
| **KDD0020** | 135 | 136 | 1 | 1.24 |
| **KDD0020** | 136 | 137 | 1 | 0.717 |
| **KDD0020** | 137 | 137.8 | 0.8 | 0.39 |
| **KDD0020** | 143.1 | 144.2 | 1.1 | 1.19 |
| **KDD0020** | 144.2 | 145.2 | 1 | 1.26 |
| **KDD0021** | 49.5 | 50 | 0.5 | 0.178 |
| **KDD0021** | 50.5 | 51.6 | 1.1 | 1.47 |
| **KDD0021** | 51.6 | 52.4 | 0.8 | 0.784 |
| **KDD0021** | 52.4 | 53 | 0.6 | 0.294 |
| **KDD0021** | 55 | 56 | 1 | 0.159 |
| **KDD0021** | 57 | 58 | 1 | 0.31 |
| **KDD0021** | 80.2 | 81 | 0.8 | 0.413 |
| **KDD0022** | 32.85 | 33.18 | 0.33 | 0.207 |
| **KDD0022** | 33.18 | 33.7 | 0.52 | 0.11 |
| **KDD0022** | 48.8 | 49.4 | 0.6 | 0.828 |
| **KDD0022** | 49.4 | 50.2 | 0.8 | 0.9 |
| **KDD0022** | 50.9 | 51.5 | 0.6 | 3.84 |
| **KDD0022** | 51.5 | 52.38 | 0.88 | 4.09 |
| **KDD0022** | 54 | 54.9 | 0.9 | 0.305 |
| **KDD0022** | 54.9 | 55.6 | 0.7 | 0.694 |
| **KDD0022** | 55.6 | 56.28 | 0.68 | 0.358 |
| **KDD0022** | 56.28 | 57.3 | 1.02 | 0.243 |
| **KDD0022** | 58 | 59 | 1 | 0.183 |
| **KDD0022** | 61.9 | 63 | 1.1 | 0.115 |
| **KDD0022** | 71.5 | 72.3 | 0.8 | 0.773 |
| **KDD0022** | 79 | 79.4 | 0.4 | 0.416 |
| **KDD0022** | 88.7 | 89.73 | 1.03 | 0.148 |
| **KDD0022** | 122.55 | 123.55 | 1 | 0.16 |
| **KDD0022** | 124.96 | 125.78 | 0.82 | 0.201 |
| **KDD0022** | 125.78 | 126.28 | 0.5 | 0.163 |
| **KDD0022** | 127.32 | 127.59 | 0.27 | 0.247 |
| **KDD0023** | 68.5 | 69 | 0.5 | 0.105 |
| **KDD0023** | 75.3 | 75.7 | 0.4 | 1.2 |
| **KDD0023** | 76.5 | 77.6 | 1.1 | 0.34 |
| **KDD0023** | 80.6 | 81.6 | 1 | 0.473 |
| **KDD0023** | 82 | 83.2 | 1.2 | 0.389 |
| **KDD0023** | 84.5 | 85.2 | 0.7 | 3.02 |
| **KDD0023** | 90.7 | 91.7 | 1 | 2.17 |
| **KDD0023** | 91.7 | 92.7 | 1 | 0.401 |
| **KDD0023** | 92.7 | 93.4 | 0.7 | 0.164 |
| **KDD0024** | 6.6 | 7.7 | 1.1 | 0.129 |
| **KDD0024** | 7.7 | 8.77 | 1.07 | 0.175 |
| **KDD0024** | 30.83 | 32 | 1.17 | 0.115 |

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|---|---|---|---|---|
| **KDD0024** | 32 | 33 | 1 | 0.222 |
| **KDD0024** | 33 | 34 | 1 | 0.203 |
| **KDD0025** | 69.25 | 69.55 | 0.3 | 0.358 |
| **KDD0025** | 70.73 | 71.23 | 0.5 | 0.93 |
| **KDD0025** | 76.28 | 76.76 | 0.48 | 0.244 |
| **KDD0025** | 77.21 | 78 | 0.79 | 0.326 |
| **KDD0025** | 78.19 | 78.52 | 0.33 | 1.14 |
| **KDD0025** | 79 | 79.72 | 0.72 | 1.32 |
| **KDD0025** | 80.24 | 80.62 | 0.38 | 0.252 |
| **KDD0025** | 81.67 | 82.16 | 0.49 | 1.57 |
| **KDD0025** | 82.16 | 82.93 | 0.77 | 0.513 |
| **KDD0025** | 84.88 | 85 | 0.12 | 0.102 |
| **KDD0025** | 85 | 85.6 | 0.6 | 0.245 |
| **KDD0025** | 86.72 | 87.34 | 0.62 | 0.419 |
| **KDD0026** | 1 | 2 | 1 | 0.424 |
| **KDD0026** | 17.91 | 19.07 | 1.16 | 0.14 |
| **KDD0026** | 29.73 | 30.85 | 1.12 | 0.108 |
| **KDD0026** | 34.04 | 34.99 | 0.95 | 0.164 |
| **KDD0026** | 46.77 | 47.7 | 0.93 | 0.53 |
| **KDD0026** | 47.7 | 48.73 | 1.03 | 1.226 |
| **KDD0026** | 51.29 | 52 | 0.71 | 0.126 |
| **KDD0027** | 30.69 | 31.7 | 1.01 | 1.208 |
| **KDD0027** | 31.7 | 32.7 | 1 | 0.228 |
| **KDD0027** | 32.7 | 33.75 | 1.05 | 0.91 |
| **KDD0027** | 35.39 | 35.67 | 0.28 | 0.119 |
| **KDD0028** | 7 | 7.85 | 0.85 | 0.266 |
| **KDD0028** | 12 | 13 | 1 | 0.449 |
| **KDD0028** | 16.94 | 18 | 1.06 | 0.49 |
| **KDD0028** | 18 | 19.04 | 1.04 | 0.198 |
| **KDD0028** | 20.22 | 21.06 | 0.84 | 1.049 |
| **KDD0028** | 24 | 24.8 | 0.8 | 0.39 |
| **KDD0029** | 4 | 4.5 | 0.5 | 1.583 |
| **KDD0029** | 23.73 | 24.83 | 1.1 | 0.377 |
| **KDD0030** | | | NSI | |
| **KDD0031** | | | NSI | |
| **KDD0032** | | | NSI | |
| **KDD0033** | | | NSI | |
| **KDD0034** | | | NSI | |
| **KDD0035** | | | NSI | |
| **KDD0036** | | | NSI | |
| **KDD0037** | 44 | 45 | 1 | 0.219 |
| **KDD0037** | 46 | 47 | 1 | 0.112 |
| **KDD0037** | 47 | 48 | 1 | 0.104 |
| **KRC0001** | | | NSI | |
| **KRC0002** | 15 | 16 | 1 | 0.138 |
| **KRC0002** | 23 | 24 | 1 | 0.155 |
| **KRC0003** | 80 | 81 | 1 | 3.6 |
| **KRC0003** | 81 | 82 | 1 | 0.569 |
| **KRC0003** | 86 | 87 | 1 | 0.654 |
| **KRC0004** | 66 | 67 | 1 | 0.111 |

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| **KRC0004** | 79 | 80 | 1 | 0.142 |
| **KRC0005** | 14 | 15 | 1 | 0.105 |
| **KRC0006** | 45 | 46 | 1 | 0.107 |
| **KRC0006** | 46 | 47 | 1 | 0.105 |
| **KRC0006** | 47 | 48 | 1 | 0.148 |
| **KRC0006** | 48 | 49 | 1 | 0.254 |
| **KRC0006** | 49 | 50 | 1 | 0.422 |
| **KRC0006** | 50 | 51 | 1 | 0.174 |
| **KRC0006** | 51 | 52 | 1 | 0.122 |
| **KRC0006** | 52 | 53 | 1 | 1.28 |
| **KRC0006** | 53 | 54 | 1 | 0.257 |
| **KRC0006** | 54 | 55 | 1 | 1.06 |
| **KRC0006** | 55 | 56 | 1 | 0.393 |
| **KRC0006** | 56 | 57 | 1 | 0.235 |
| **KRC0006** | 78 | 79 | 1 | 0.706 |
| **KRC0006** | 79 | 80 | 1 | 0.134 |
| **KRC0006** | 80 | 81 | 1 | 0.206 |
| **KRC0007** | 44 | 45 | 1 | 0.149 |
| **KRC0007** | 97 | 98 | 1 | 0.116 |
| **KRC0007** | 99 | 100 | 1 | 0.53 |
| **KRC0007** | 100 | 101 | 1 | 0.207 |
| **KRC0007** | 101 | 102 | 1 | 0.406 |
| **KRC0007** | 104 | 105 | 1 | 0.348 |
| **KRC0007** | 105 | 106 | 1 | 0.107 |
| **KRC0008** | 103 | 104 | 1 | 0.139 |
| **KRC0008** | 105 | 106 | 1 | 0.255 |
| **KRC0008** | 107 | 108 | 1 | 0.165 |
| **KRC0008** | 132 | 133 | 1 | 0.123 |
| **KRC0008** | 133 | 134 | 1 | 0.708 |
| **KRC0008** | 134 | 135 | 1 | 0.18 |
| **KRC0009** | 8 | 9 | 1 | 0.115 |
| **KRC0009** | 53 | 54 | 1 | 0.133 |
| **KRC0009** | 59 | 60 | 1 | 1.56 |
| **KRC0009** | 60 | 61 | 1 | 1.08 |
| **KRC0009** | 61 | 62 | 1 | 0.309 |
| **KRC0010** | 63 | 64 | 1 | 0.103 |
| **KRC0010** | 82 | 83 | 1 | 0.201 |
| **KRC0010** | 83 | 84 | 1 | 0.439 |
| **KRC0010** | 84 | 85 | 1 | 0.145 |
| **KRC0010** | 99 | 100 | 1 | 0.113 |
| **KRC0010** | 101 | 102 | 1 | 0.933 |
| **KRC0011** | 2 | 3 | 1 | 0.166 |
| **KRC0011** | 12 | 13 | 1 | 0.372 |
| **KRC0011** | 30 | 31 | 1 | 0.137 |
| **KRC0011** | 39 | 40 | 1 | 0.136 |
| **KRC0011** | 47 | 48 | 1 | 0.345 |
| **KRC0012** | 5 | 6 | 1 | 0.226 |
| **KRC0012** | 20 | 21 | 1 | 0.105 |
| **KRC0012** | 22 | 23 | 1 | 0.119 |
| **KRC0012** | 23 | 24 | 1 | 0.114 |

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|---|---|---|---|---|
| **KRC0012** | 41 | 42 | 1 | 0.19 |
| **KRC0012** | 42 | 43 | 1 | 0.332 |
| **KRC0012** | 48 | 49 | 1 | 0.112 |
| **KRC0012** | 49 | 50 | 1 | 0.243 |
| **KRC0012** | 52 | 53 | 1 | 0.11 |
| **KRC0012** | 59 | 60 | 1 | 0.255 |
| **KRC0013** | 88 | 89 | 1 | 0.158 |
| **KRC0013** | 89 | 90 | 1 | 0.328 |
| **KRC0013** | 97 | 98 | 1 | 0.581 |
| **KRC0013** | 98 | 99 | 1 | 0.14 |
| **KRC0013** | 102 | 103 | 1 | 0.187 |
| **KRC0013** | 103 | 104 | 1 | 0.272 |
| **KRC0013** | 104 | 105 | 1 | 0.24 |
| **KRC0013** | 142 | 143 | 1 | 0.131 |
| **KRC0013** | 143 | 144 | 1 | 0.507 |
| **KRC0014** | 26 | 27 | 1 | 0.229 |
| **KRC0014** | 33 | 34 | 1 | 0.191 |
| **KRC0014** | 51 | 52 | 1 | 0.189 |
| **KRC0014** | 52 | 53 | 1 | 0.986 |
| **KRC0014** | 53 | 54 | 1 | 0.103 |
| **KRC0014** | 56 | 57 | 1 | 0.126 |
| **KRC0014** | 57 | 58 | 1 | 0.121 |
| **KRC0014** | 71 | 72 | 1 | 0.127 |
| **KRC0014** | 82 | 83 | 1 | 0.231 |
| **KRC0014** | 85 | 86 | 1 | 1.05 |
| **KRC0014** | 86 | 87 | 1 | 0.175 |
| **KRC0014** | 122 | 123 | 1 | 0.204 |
| **KRC0014** | 124 | 125 | 1 | 0.133 |
| **KRC0015** | 72 | 73 | 1 | 0.407 |
| **KRC0015** | 73 | 74 | 1 | 0.762 |
| **KRC0015** | 103 | 104 | 1 | 0.245 |
| **KRC0015** | 104 | 105 | 1 | 0.147 |
| **KRC0015** | 105 | 106 | 1 | 0.196 |
| **KRC0015** | 106 | 107 | 1 | 0.218 |
| **KRC0015** | 110 | 111 | 1 | 0.216 |
| **KRC0015** | 110 | 115 | 5 | 0.112 |
| **KRC0015** | 111 | 112 | 1 | 0.167 |
| **KRC0015** | 117 | 118 | 1 | 0.119 |
| **KRC0015** | 118 | 119 | 1 | 0.211 |
| **KRC0015** | 119 | 120 | 1 | 0.105 |
| **KRC0016** | 45 | 46 | 1 | 0.211 |
| **KRC0016** | 60 | 61 | 1 | 0.373 |
| **KRC0016** | 69 | 70 | 1 | 0.109 |
| **KRC0017** | 34 | 35 | 1 | 0.139 |
| **KRC0017** | 36 | 37 | 1 | 0.19 |
| **KRC0017** | 54 | 55 | 1 | 0.154 |
| **KRC0017** | 66 | 67 | 1 | 0.388 |
| **KRC0017** | 68 | 69 | 1 | 0.908 |
| **KRC0017** | 69 | 70 | 1 | 0.114 |
| **KRC0019** | 84 | 85 | 1 | 0.162 |

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|---|---|---|---|---|
| **KRC0019** | 85 | 86 | 1 | 0.176 |
| **KRC0019** | 88 | 89 | 1 | 0.103 |
| **KRC0019** | 100 | 101 | 1 | 0.129 |
| **KRC0019** | 104 | 105 | 1 | 0.331 |
| **KRC0020** | 80 | 81 | 1 | 0.259 |
| **KRC0020** | 103 | 104 | 1 | 0.18 |
| **KRC0020** | 106 | 107 | 1 | 0.563 |
| **KRC0020** | 107 | 108 | 1 | 0.987 |
| **KRC0020** | 125 | 126 | 1 | 0.105 |
| **KRC0020** | 146 | 147 | 1 | 0.167 |
| **KRC0021** | 133 | 134 | 1 | 0.171 |
| **KRC0021** | 134 | 135 | 1 | 0.107 |
| **KRC0022** | 133 | 134 | 1 | 0.509 |
| **KRC0022** | 134 | 135 | 1 | 0.295 |
| **KRC0022** | 150 | 151 | 1 | 0.344 |
| **KRC0024** | 4 | 5 | 1 | 0.107 |
| **KRC0024** | 32 | 33 | 1 | 0.366 |
| **KRC0025** | 7 | 8 | 1 | 0.122 |
| **KRC0025** | 11 | 12 | 1 | 0.11 |
| **KRC0025** | 13 | 14 | 1 | 0.162 |
| **KRC0027** | 7 | 8 | 1 | 0.258 |
| **KRC0027** | 8 | 9 | 1 | 0.204 |
| **KRC0027** | 10 | 11 | 1 | 0.177 |
| **KRC0027** | 11 | 12 | 1 | 0.235 |
| **KRC0027** | 30 | 31 | 1 | 0.16 |
| **KRC0028** | | | NSI | |
| **KRC0029** | | | NSI | |
| **KRC0030** | | | NSI | |
| **KRC0031** | | | NSI | |
| **KRC0032** | 2 | 3 | 1 | 0.12 |
| **KRC0032** | 20 | 21 | 1 | 0.114 |
| **KRC0032** | 21 | 22 | 1 | 0.13 |
| **KRC0034** | 2 | 3 | 1 | 0.123 |
| **KRC0034** | 6 | 7 | 1 | 0.132 |
| **KRC0034** | 22 | 23 | 1 | 0.106 |
| **KRC0034** | 24 | 25 | 1 | 0.403 |
| **KRC0034** | 25 | 26 | 1 | 0.713 |
| **KRC0034** | 30 | 31 | 1 | 0.245 |
| **KRC0035** | 10 | 11 | 1 | 0.107 |
| **KRC0035** | 11 | 12 | 1 | 0.121 |
| **KRC0035** | 28 | 29 | 1 | 0.124 |
| **KRC0035** | 59 | 60 | 1 | 0.223 |
| **KRC0036** | | | NSI | |
| **KRC0037** | | | NSI | |
| **KRC0038** | 103 | 104 | 1 | 0.189 |
| **KRC0038** | 110 | 111 | 1 | 0.293 |
| **KRC0038** | 111 | 112 | 1 | 0.171 |
| **KRC0038** | 112 | 113 | 1 | 0.242 |
| **KRC0038** | 113 | 114 | 1 | 0.357 |
| **KRC0038** | 115 | 116 | 1 | 0.203 |

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|---|---|---|---|---|
| **KRC0038** | 116 | 117 | 1 | 0.15 |
| **KRC0038** | 119 | 120 | 1 | 0.183 |
| **KRC0038** | 131 | 132 | 1 | 0.388 |
| **KRC0038** | 132 | 133 | 1 | 0.176 |
| **KRC0038** | 133 | 134 | 1 | 0.353 |
| **KRC0038** | 134 | 135 | 1 | 0.25 |
| **KRC0038** | 138 | 139 | 1 | 0.125 |
| **KRC0038** | 143 | 144 | 1 | 0.285 |
| **KRC0038** | 144 | 145 | 1 | 0.186 |
| **KRC0039** | | | NSI | |
| **KRC0040** | 28 | 29 | 1 | 0.125 |
| **KRC0040** | 34 | 35 | 1 | 0.177 |
| **KRC0040** | 35 | 36 | 1 | 1.13 |
| **KRC0040** | 38 | 39 | 1 | 0.182 |
| **KRC0041** | 51 | 52 | 1 | 0.772 |
| **KRC0042** | 19 | 20 | 1 | 0.331 |
| **KRC0042** | 23 | 24 | 1 | 1.19 |
| **KRC0042** | 24 | 25 | 1 | 0.149 |
| **KRC0043** | 23 | 24 | 1 | 0.124 |
| **KRC0043** | 24 | 25 | 1 | 0.833 |
| **KRC0043** | 25 | 26 | 1 | 0.825 |
| **KRC0043** | 26 | 27 | 1 | 0.723 |
| **KRC0043** | 27 | 28 | 1 | 0.285 |
| **KRC0043** | 30 | 31 | 1 | 0.376 |
| **KRC0043** | 32 | 33 | 1 | 0.551 |
| **KRC0043** | 33 | 34 | 1 | 0.133 |
| **KRC0043** | 34 | 35 | 1 | 0.132 |
| **KRC0043** | 35 | 36 | 1 | 0.156 |
| **KRC0043** | 46 | 47 | 1 | 0.341 |
| **KRC0043** | 47 | 48 | 1 | 0.114 |
| **KRC0044** | 64 | 65 | 1 | 0.46 |
| **KRC0044** | 65 | 66 | 1 | 0.327 |
| **KRC0044** | 66 | 67 | 1 | 0.18 |
| **KRC0044** | 72 | 73 | 1 | 0.65 |
| **KRC0044** | 75 | 76 | 1 | 0.154 |
| **KRC0044** | 76 | 77 | 1 | 0.422 |
| **KRC0044** | 77 | 78 | 1 | 0.107 |
| **KRC0045** | 19 | 20 | 1 | 0.633 |
| **KRC0045** | 20 | 21 | 1 | 0.116 |
| **KRC0045** | 31 | 32 | 1 | 0.437 |
| **KRC0045** | 47 | 48 | 1 | 0.106 |
| **KRC0046** | 53 | 54 | 1 | 0.406 |
| **KRC0046** | 54 | 55 | 1 | 0.895 |
| **KRC0046** | 55 | 56 | 1 | 1.08 |
| **KRC0046** | 56 | 57 | 1 | 1.64 |
| **KRC0046** | 57 | 58 | 1 | 0.464 |
| **KRC0046** | 58 | 59 | 1 | 0.108 |
| **KRC0046** | 60 | 61 | 1 | 0.194 |
| **KRC0046** | 61 | 62 | 1 | 0.617 |
| **KRC0046** | 64 | 65 | 1 | 1.2 |

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|---|---|---|---|---|
| **KRC0046** | 65 | 66 | 1 | 3.64 |
| **KRC0046** | 66 | 67 | 1 | 1.175 |
| **KRC0047** | 79 | 80 | 1 | 0.653 |
| **KRC0047** | 81 | 82 | 1 | 0.126 |
| **KRC0047** | 88 | 89 | 1 | 0.663 |
| **KRC0047** | 89 | 90 | 1 | 0.456 |
| **KRC0047** | 90 | 91 | 1 | 0.293 |
| **KRC0047** | 91 | 92 | 1 | 0.283 |
| **KRC0047** | 92 | 93 | 1 | 0.644 |
| **KRC0047** | 96 | 97 | 1 | 0.134 |
| **KRC0047** | 102 | 103 | 1 | 0.537 |
| **KRC0047** | 103 | 104 | 1 | 0.322 |
| **KRC0048** | 1 | 2 | 1 | 0.225 |
| **KRC0048** | 2 | 3 | 1 | 0.188 |
| **KRC0048** | 3 | 4 | 1 | 1.903 |
| **KRC0048** | 5 | 6 | 1 | 0.143 |
| **KRC0048** | 14 | 15 | 1 | 0.166 |
| **KRC0048** | 25 | 26 | 1 | 0.173 |
| **KRC0048** | 26 | 27 | 1 | 0.226 |
| **KRC0049** | 30 | 31 | 1 | 0.187 |
| **KRC0049** | 48 | 49 | 1 | 0.124 |
| **KRC0050** | 69 | 70 | 1 | 1.3665 |
| **KRC0050** | 70 | 71 | 1 | 0.372 |
| **KRC0050** | 71 | 72 | 1 | 1.142 |
| **KRC0050** | 78 | 79 | 1 | 0.36 |
| **KRC0050** | 80 | 81 | 1 | 0.11 |
| **KRC0050** | 81 | 82 | 1 | 0.112 |
| **KRC0050** | 82 | 83 | 1 | 0.38 |
| **KRC0050** | 83 | 84 | 1 | 0.372 |
| **KRC0050** | 84 | 85 | 1 | 0.876 |
| **KRC0050** | 85 | 86 | 1 | 1.06 |
| **KRC0050** | 86 | 87 | 1 | 2.028 |
| **KRC0050** | 87 | 88 | 1 | 1.787 |
| **KRC0050** | 88 | 89 | 1 | 2.175 |
| **KRC0050** | 89 | 90 | 1 | 0.377 |
| **KRC0050** | 90 | 91 | 1 | 1.24 |
| **KRC0050** | 91 | 92 | 1 | 0.35 |
| **KRC0051** | 23 | 24 | 1 | 0.148 |
| **KRC0052** | 45 | 46 | 1 | 0.847 |
| **KRC0052** | 46 | 47 | 1 | 0.138 |
| **KRC0052** | 49 | 50 | 1 | 0.175 |
| **KRC0052** | 52 | 53 | 1 | 0.183 |
| **KRC0052** | 54 | 55 | 1 | 0.27 |
| **KRC0052** | 60 | 61 | 1 | 0.2 |
| **KRC0053** | 82 | 83 | 1 | 0.35 |
| **KRC0053** | 111 | 112 | 1 | 0.152 |
| **KRC0053** | 112 | 113 | 1 | 0.985 |
| **KRC0053** | 113 | 114 | 1 | 0.618 |
| **KRC0054** | | | NSI | |
| **KRC0055** | 77 | 78 | 1 | 0.111 |

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|---|---|---|---|---|
| **KRC0056** | 75 | 76 | 1 | 0.228 |
| **KRC0057** | 18 | 19 | 1 | 0.149 |
| **KRC0057** | 22 | 23 | 1 | 0.208 |
| **KRC0057** | 23 | 24 | 1 | 0.114 |
| **KRC0057** | 24 | 25 | 1 | 0.107 |
| **KRC0057** | 25 | 26 | 1 | 1.05 |
| **KRC0057** | 26 | 27 | 1 | 0.45 |
| **KRC0057** | 36 | 37 | 1 | 0.173 |
| **KRC0057** | 38 | 39 | 1 | 0.376 |
| **KRC0057** | 47 | 48 | 1 | 0.213 |
| **KRC0058** | 13 | 14 | 1 | 0.146 |
| **KRC0058** | 14 | 15 | 1 | 0.15 |
| **KRC0058** | 16 | 17 | 1 | 0.479 |
| **KRC0058** | 34 | 35 | 1 | 0.36 |
| **KRC0059** | 52 | 53 | 1 | 0.221 |
| **KRC0059** | 58 | 59 | 1 | 0.448 |
| **KRC0060** | 83 | 84 | 1 | 0.194 |
| **KRC0060** | 84 | 85 | 1 | 0.515 |
| **KRC0060** | 87 | 88 | 1 | 1.23 |
| **KRC0060** | 88 | 89 | 1 | 0.332 |
| **KRC0060** | 89 | 90 | 1 | 0.278 |
| **KRC0060** | 90 | 91 | 1 | 0.122 |
| **KRC0060** | 92 | 93 | 1 | 0.137 |
| **KRC0060** | 95 | 96 | 1 | 0.228 |
| **KRC0060** | 96 | 97 | 1 | 0.424 |
| **KRC0060** | 97 | 98 | 1 | 0.104 |
| **KRC0060** | 101 | 102 | 1 | 0.125 |
| **KRC0060** | 104 | 105 | 1 | 0.102 |
| **KRC0060** | 106 | 107 | 1 | 0.443 |
| **KRC0061** | 8 | 9 | 1 | 0.339 |
| **KRC0062** | 5 | 6 | 1 | 0.182 |
| **KRC0062** | 6 | 7 | 1 | 0.102 |
| **KRC0062** | 7 | 8 | 1 | 0.144 |
| **KRC0062** | 9 | 10 | 1 | 0.378 |
| **KRC0062** | 10 | 11 | 1 | 0.261 |
| **KRC0062** | 30 | 31 | 1 | 0.128 |
| **KRC0062** | 31 | 32 | 1 | 0.125 |
| **KRC0062** | 33 | 34 | 1 | 0.131 |
| **KRC0063** | 29 | 30 | 1 | 0.161 |
| **KRC0063** | 31 | 32 | 1 | 0.15 |
| **KRC0063** | 34 | 35 | 1 | 0.301 |
| **KRC0063** | 46 | 47 | 1 | 0.342 |
| **KRC0063** | 57 | 58 | 1 | 0.237 |
| **KRC0064** | 65 | 66 | 1 | 0.132 |
| **KRC0065** | 19 | 20 | 1 | 0.329 |
| **KRC0065** | 20 | 21 | 1 | 0.128 |
| **KRC0066** | 1 | 2 | 1 | 0.133 |
| **KRC0066** | 13 | 14 | 1 | 0.24 |
| **KRC0066** | 16 | 17 | 1 | 0.445 |
| **KRC0066** | 17 | 18 | 1 | 0.1315 |

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| **KRC0066** | 18 | 19 | 1 | 0.192 |
| **KRC0066** | 19 | 20 | 1 | 0.173 |
| **KRC0066** | 20 | 21 | 1 | 0.341 |
| **KRC0067** | 17 | 18 | 1 | 0.143 |
| **KRC0067** | 18 | 19 | 1 | 0.132 |
| **KRC0067** | 28 | 29 | 1 | 0.112 |
| **KRC0067** | 32 | 33 | 1 | 0.147 |
| **KRC0067** | 34 | 35 | 1 | 0.385 |
| **KRC0067** | 35 | 36 | 1 | 0.242 |
| **KRC0067** | 44 | 45 | 1 | 0.171 |
| **KRC0067** | 45 | 46 | 1 | 0.178 |
| **KRC0067** | 48 | 49 | 1 | 1.24 |
| **KRC0067** | 49 | 50 | 1 | 0.679 |
| **KRC0067** | 50 | 51 | 1 | 0.25 |
| **KRC0067** | 51 | 52 | 1 | 0.194 |
| **KRC0067** | 52 | 53 | 1 | 0.11 |
| **KRC0067** | 53 | 54 | 1 | 0.129 |
| **KRC0067** | 56 | 57 | 1 | 0.14 |
| **KRC0068** | | | NSI | |
| **KRC0069** | 51 | 52 | 1 | 0.239 |
| **KRC0069** | 52 | 53 | 1 | 0.147 |
| **KRC0069** | 53 | 54 | 1 | 0.118 |
| **KRC0069** | 73 | 74 | 1 | 0.207 |
| **KRC0069** | 77 | 78 | 1 | 0.105 |
| **KRC0069** | 87 | 88 | 1 | 0.141 |
| **KRC0069** | 89 | 90 | 1 | 0.173 |
| **KRC0069** | 90 | 91 | 1 | 0.194 |
| **KRC0070** | 27 | 28 | 1 | 0.287 |
| **KRC0070** | 28 | 29 | 1 | 0.195 |
| **KRC0070** | 29 | 30 | 1 | 0.215 |
| **KRC0070** | 30 | 31 | 1 | 0.104 |
| **KRC0070** | 31 | 32 | 1 | 0.303 |
| **KRC0070** | 32 | 33 | 1 | 0.272 |
| **KRC0070** | 33 | 34 | 1 | 0.116 |
| **KRC0070** | 35 | 36 | 1 | 0.143 |
| **KRC0070** | 37 | 38 | 1 | 0.104 |
| **KRC0070** | 39 | 40 | 1 | 1.33 |
| **KRC0070** | 40 | 41 | 1 | 0.243 |
| **KRC0070** | 41 | 42 | 1 | 0.127 |
| **KRC0070** | 47 | 48 | 1 | 0.209 |
| **KRC0070** | 48 | 49 | 1 | 0.114 |
| **KRC0071** | 51 | 52 | 1 | 1.08 |
| **KRC0071** | 52 | 53 | 1 | 0.574 |
| **KRC0071** | 53 | 54 | 1 | 0.326 |
| **KRC0071** | 54 | 55 | 1 | 0.296 |
| **KRC0071** | 55 | 56 | 1 | 0.14 |
| **KRC0071** | 56 | 57 | 1 | 0.948 |
| **KRC0071** | 57 | 58 | 1 | 0.351 |
| **KRC0071** | 58 | 59 | 1 | 0.371 |
| **KRC0071** | 59 | 60 | 1 | 0.182 |

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| **KRC0071** | 67 | 68 | 1 | 0.214 |
| **KRC0071** | 73 | 74 | 1 | 0.253 |
| **KRC0071** | 74 | 75 | 1 | 0.229 |
| **KRC0072** | 28 | 29 | 1 | 0.451 |
| **KRC0072** | 29 | 30 | 1 | 0.379 |
| **KRC0072** | 30 | 31 | 1 | 0.127 |
| **KRC0072** | 31 | 32 | 1 | 0.261 |
| **KRC0072** | 32 | 33 | 1 | 0.188 |
| **KRC0072** | 33 | 34 | 1 | 1.01 |
| **KRC0072** | 34 | 35 | 1 | 0.264 |
| **KRC0072** | 35 | 36 | 1 | 0.103 |
| **KRC0072** | 37 | 38 | 1 | 0.114 |
| **KRC0072** | 38 | 39 | 1 | 0.429 |
| **KRC0072** | 39 | 40 | 1 | 0.448 |
| **KRC0072** | 40 | 41 | 1 | 0.23 |
| **KRC0072** | 43 | 44 | 1 | 0.218 |
| **KRC0072** | 48 | 49 | 1 | 0.148 |
| **KRC0073** | 54 | 55 | 1 | 0.111 |
| **KRC0074** | 73 | 74 | 1 | 0.144 |
| **KRC0074** | 74 | 75 | 1 | 0.61 |
| **KRC0075** | 39 | 40 | 1 | 0.162 |
| **KRC0075** | 44 | 45 | 1 | 0.118 |
| **KRC0075** | 48 | 49 | 1 | 0.247 |
| **KRC0077** | 47 | 48 | 1 | 0.135 |
| **KRC0077** | 49 | 50 | 1 | 0.128 |
| **KRC0077** | 50 | 51 | 1 | 0.139 |
| **KRC0077** | 64 | 65 | 1 | 0.102 |
| **KRC0078** | 84 | 85 | 1 | 0.127 |
| **KRC0079** | 0 | 1 | 1 | 0.147 |
| **KRC0080** | 9 | 10 | 1 | 0.105 |
| **KRC0080** | 30 | 31 | 1 | 0.119 |
| **KRC0080** | 48 | 49 | 1 | 0.181 |
| **KRC0080** | 71 | 72 | 1 | 0.106 |
| **KRC0081** | 9 | 10 | 1 | 0.219 |
| **KRC0082** | 28 | 29 | 1 | 0.112 |
| **KRC0082** | 29 | 30 | 1 | 0.252 |
| **KRC0082** | 53 | 54 | 1 | 0.297 |
| **KRC0082** | 54 | 55 | 1 | 0.118 |
| **KRC0082** | 57 | 58 | 1 | 0.17 |
| **KRC0082** | 58 | 59 | 1 | 0.106 |
| **KRC0082** | 65 | 66 | 1 | 0.121 |
| **KRC0082** | 83 | 84 | 1 | 1.03 |
| **KRC0082** | 84 | 85 | 1 | 0.342 |
| **KRC0083** | 1 | 2 | 1 | 0.175 |
| **KRC0083** | 21 | 22 | 1 | 0.103 |
| **KRC0083** | 30 | 31 | 1 | 0.223 |
| **KRC0083** | 41 | 42 | 1 | 0.175 |
| **KRC0083** | 50 | 51 | 1 | 0.185 |
| **KRC0083** | 51 | 52 | 1 | 0.169 |
| **KRC0083** | 52 | 53 | 1 | 0.141 |

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| **KRC0084** | 45 | 46 | 1 | 0.108 |
| **KRC0084** | 46 | 47 | 1 | 0.128 |
| **KRC0084** | 48 | 49 | 1 | 0.218 |
| **KRC0084** | 64 | 65 | 1 | 0.211 |
| **KRC0084** | 65 | 66 | 1 | 0.174 |
| **KRC0084** | 66 | 67 | 1 | 0.127 |
| **KRC0084** | 67 | 68 | 1 | 0.137 |
| **KRC0084** | 87 | 88 | 1 | 0.706 |
| **KRC0084** | 88 | 89 | 1 | 0.102 |
| **KRC0084** | 116 | 117 | 1 | 0.188 |
| **KRC0086** | 3 | 4 | 1 | 0.194 |
| **KRC0086** | 21 | 22 | 1 | 0.111 |
| **KRC0086** | 35 | 36 | 1 | 0.232 |
| **KRC0086** | 36 | 37 | 1 | 0.118 |
| **KRC0087** | 19 | 20 | 1 | 0.227 |
| **KRC0087** | 20 | 21 | 1 | 0.315 |
| **KRC0087** | 31 | 32 | 1 | 0.142 |
| **KRC0087** | 53 | 54 | 1 | 0.429 |
| **KRC0088** | 43 | 44 | 1 | 0.386 |
| **KRC0088** | 44 | 45 | 1 | 0.967 |
| **KRC0088** | 45 | 46 | 1 | 0.48 |
| **KRC0088** | 46 | 47 | 1 | 0.156 |
| **KRC0088** | 47 | 48 | 1 | 0.277 |
| **KRC0088** | 92 | 93 | 1 | 0.709 |
| **KRC0088** | 93 | 94 | 1 | 0.292 |
| **KRC0088** | 94 | 95 | 1 | 0.212 |
| **KRC0088** | 95 | 96 | 1 | 0.248 |
| **KRC0088** | 96 | 97 | 1 | 0.176 |
| **KRC0089** | 5 | 6 | 1 | 0.671 |
| **KRC0089** | 6 | 7 | 1 | 0.172 |
| **KRC0089** | 22 | 23 | 1 | 0.228 |
| **KRC0089** | 23 | 24 | 1 | 0.149 |
| **KRC0089** | 31 | 32 | 1 | 0.762 |
| **KRC0089** | 32 | 33 | 1 | 0.151 |
| **KRC0090** | 38 | 39 | 1 | 0.264 |
| **KRC0090** | 42 | 43 | 1 | 0.11 |
| **KRC0090** | 43 | 44 | 1 | 0.115 |
| **KRC0090** | 44 | 45 | 1 | 0.188 |
| **KRC0090** | 50 | 51 | 1 | 0.445 |
| **KRC0090** | 51 | 52 | 1 | 0.118 |
| **KRC0090** | 52 | 53 | 1 | 0.154 |
| **KRC0090** | 53 | 54 | 1 | 0.34 |
| **KRC0091** | 81 | 82 | 1 | 0.117 |
| **KRC0091** | 82 | 83 | 1 | 0.56 |
| **KRC0092** | 6 | 7 | 1 | 0.321 |
| **KRC0092** | 7 | 8 | 1 | 0.711 |
| **KRC0092** | 11 | 12 | 1 | 0.361 |
| **KRC0093** | 5 | 6 | 1 | 0.158 |
| **KRC0093** | 6 | 7 | 1 | 0.322 |
| **KRC0093** | 7 | 8 | 1 | 0.115 |

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|---|---|---|---|---|
| **KRC0093** | 35 | 36 | 1 | 0.112 |
| **KRC0093** | 36 | 37 | 1 | 0.327 |
| **KRC0093** | 37 | 38 | 1 | 0.158 |
| **KRC0094** | | | NSI | |
| **KRC0095** | 20 | 21 | 1 | 0.326 |
| **KRC0095** | 21 | 22 | 1 | 0.121 |
| **KRC0095** | 68 | 69 | 1 | 0.105 |
| **KRC0095** | 69 | 70 | 1 | 0.543 |
| **KRC0095** | 72 | 73 | 1 | 0.196 |
| **KRC0095** | 73 | 74 | 1 | 0.411 |
| **KRC0095** | 74 | 75 | 1 | 0.171 |
| **KRC0095** | 75 | 76 | 1 | 0.117 |
| **KRC0096** | 22 | 23 | 1 | 0.123 |
| **KRC0096** | 28 | 29 | 1 | 0.24 |
| **KRC0096** | 29 | 30 | 1 | 0.247 |
| **KRC0097** | 36 | 37 | 1 | 0.165 |
| **KRC0097** | 43 | 44 | 1 | 0.317 |
| **KRC0097** | 44 | 45 | 1 | 0.211 |
| **KRC0097** | 55 | 56 | 1 | 0.33 |
| **KRC0097** | 56 | 57 | 1 | 0.749 |
| **KRC0097** | 57 | 58 | 1 | 0.115 |
| **KRC0097** | 66 | 67 | 1 | 0.147 |
| **KRC0098** | 24 | 25 | 1 | 0.139 |
| **KRC0098** | 34 | 35 | 1 | 0.336 |
| **KRC0098** | 36 | 37 | 1 | 0.52 |
| **KRC0098** | 41 | 42 | 1 | 1.098 |
| **KRC0098** | 42 | 43 | 1 | 2.488 |
| **KRC0098** | 43 | 44 | 1 | 0.916 |
| **KRC0098** | 44 | 45 | 1 | 1.472 |
| **KRC0098** | 46 | 47 | 1 | 0.141 |
| **KRC0098** | 47 | 48 | 1 | 0.11 |
| **KRC0098** | 55 | 56 | 1 | 0.146 |
| **KRC0098** | 56 | 57 | 1 | 0.14 |
| **KRC0098** | 57 | 58 | 1 | 0.115 |
| **KRC0098** | 63 | 64 | 1 | 0.116 |
| **KRC0099** | 53 | 54 | 1 | 0.171 |
| **KRC0099** | 54 | 55 | 1 | 0.783 |
| **KRC0099** | 55 | 56 | 1 | 0.21 |
| **KRC0099** | 56 | 57 | 1 | 0.268 |
| **KRC0099** | 57 | 58 | 1 | 0.278 |
| **KRC0099** | 58 | 59 | 1 | 0.148 |
| **KRC0099** | 60 | 61 | 1 | 0.326 |
| **KRC0099** | 64 | 65 | 1 | 0.214 |
| **KRC0100** | 19 | 20 | 1 | 1.024 |
| **KRC0100** | 20 | 21 | 1 | 0.7605 |
| **KRC0100** | 21 | 22 | 1 | 0.316 |
| **KRC0100** | 23 | 24 | 1 | 0.101 |
| **KRC0100** | 24 | 25 | 1 | 0.104 |
| **KRC0100** | 28 | 29 | 1 | 0.117 |
| **KRC0100** | 32 | 33 | 1 | 0.338 |

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|---|---|---|---|---|
| **KRC0100** | 33 | 34 | 1 | 1.621 |
| **KRC0100** | 34 | 35 | 1 | 0.149 |
| **KRC0100** | 35 | 36 | 1 | 0.119 |
| **KRC0100** | 36 | 37 | 1 | 0.398 |
| **KRC0100** | 39 | 40 | 1 | 0.215 |
| **KRC0100** | 40 | 41 | 1 | 0.1845 |
| **KRC0100** | 43 | 44 | 1 | 0.124 |
| **KRC0101** | 70 | 71 | 1 | 0.27 |
| **KRC0101** | 75 | 76 | 1 | 0.345 |
| **KRC0101** | 76 | 77 | 1 | 1.412 |
| **KRC0101** | 77 | 78 | 1 | 0.691 |
| **KRC0102** | 21 | 22 | 1 | 0.214 |
| **KRC0102** | 22 | 23 | 1 | 0.733 |
| **KRC0102** | 23 | 24 | 1 | 0.275 |
| **KRC0102** | 24 | 25 | 1 | 0.899 |
| **KRC0102** | 25 | 26 | 1 | 0.456 |
| **KRC0102** | 26 | 27 | 1 | 0.102 |
| **KRC0103** | 21 | 22 | 1 | 0.22 |
| **KRC0103** | 22 | 23 | 1 | 0.34 |
| **KRC0103** | 23 | 24 | 1 | 0.879 |
| **KRC0103** | 24 | 25 | 1 | 0.128 |
| **KRC0103** | 35 | 36 | 1 | 0.121 |
| **KRC0103** | 36 | 37 | 1 | 0.111 |
| **KRC0104** | 51 | 52 | 1 | 0.124 |
| **KRC0104** | 52 | 53 | 1 | 2.11 |
| **KRC0104** | 53 | 54 | 1 | 0.786 |
| **KRC0104** | 54 | 55 | 1 | 0.156 |
| **KRC0104** | 55 | 56 | 1 | 0.323 |
| **KRC0104** | 58 | 59 | 1 | 0.202 |
| **KRC0104** | 60 | 61 | 1 | 0.235 |
| **KRC0104** | 61 | 62 | 1 | 0.122 |
| **KRC0105** | 71 | 72 | 1 | 0.152 |
| **KRC0105** | 91 | 92 | 1 | 0.537 |
| **KRC0105** | 92 | 93 | 1 | 0.173 |
| **KRC0106** | 21 | 22 | 1 | 0.2535 |
| **KRC0106** | 22 | 23 | 1 | 1.764 |
| **KRC0106** | 23 | 24 | 1 | 0.552 |
| **KRC0106** | 24 | 25 | 1 | 0.156 |
| **KRC0106** | 44 | 45 | 1 | 0.109 |
| **KRC0106** | 47 | 48 | 1 | 0.205 |
| **KRC0107** | | | NSI | |
| **KRC0108** | 118 | 119 | 1 | 0.225 |
| **KRC0108** | 122 | 123 | 1 | 0.195 |
| **KRC0108** | 144 | 145 | 1 | 0.204 |
| **KRC0108** | 148 | 149 | 1 | 0.126 |
| **KRC0109** | 33 | 34 | 1 | 0.152 |
| **KRC0110** | 24 | 25 | 1 | 0.167 |
| **KRC0110** | 25 | 26 | 1 | 0.143 |
| **KRC0110** | 41 | 42 | 1 | 0.248 |
| **KRC0110** | 44 | 45 | 1 | 0.204 |

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|---|---|---|---|---|
| **KRC0110** | 46 | 47 | 1 | 0.102 |
| **KRC0110** | 59 | 60 | 1 | 0.141 |
| **KRC0110** | 88 | 89 | 1 | 0.118 |
| **KRC0111** | 38 | 39 | 1 | 0.697 |
| **KRC0111** | 39 | 40 | 1 | 0.203 |
| **KRC0111** | 49 | 50 | 1 | 0.101 |
| **KRC0111** | 60 | 61 | 1 | 0.193 |
| **KRC0111** | 103 | 104 | 1 | 0.139 |
| **KRC0111** | 105 | 106 | 1 | 0.233 |
| **KRC0111** | 106 | 107 | 1 | 0.359 |
| **KRC0111** | 107 | 108 | 1 | 0.103 |
| **KRC0111** | 109 | 110 | 1 | 0.209 |
| **KRC0111** | 110 | 111 | 1 | 0.181 |
| **KRC0111** | 112 | 113 | 1 | 0.253 |
| **KRC0112** | 83 | 84 | 1 | 0.3005 |
| **KRC0112** | 84 | 85 | 1 | 0.224 |
| **KRC0112** | 85 | 86 | 1 | 0.134 |
| **KRC0112** | 127 | 128 | 1 | 0.176 |
| **KRC0112** | 128 | 129 | 1 | 0.122 |
| **KRC0112** | 133 | 134 | 1 | 0.175 |
| **KRC0112** | 134 | 135 | 1 | 0.143 |
| **KRC0113** | 103 | 104 | 1 | 0.124 |
| **KRC0113** | 104 | 105 | 1 | 0.396 |
| **KRC0113** | 117 | 118 | 1 | 0.286 |
| **KRC0113** | 118 | 119 | 1 | 0.123 |
| **KRC0113** | 119 | 120 | 1 | 0.119 |
| **KRC0113** | 141 | 142 | 1 | 0.167 |
| **KRC0113** | 144 | 145 | 1 | 0.245 |
| **KRC0113** | 145 | 146 | 1 | 0.137 |
| **KRC0113** | 147 | 148 | 1 | 0.222 |
| **KRC0113** | 148 | 149 | 1 | 0.232 |
| **KRC0113** | 149 | 150 | 1 | 0.1745 |
| **KRC0113** | 150 | 151 | 1 | 0.253 |
| **KRC0113** | 151 | 152 | 1 | 0.148 |
| **KRC0113** | 158 | 159 | 1 | 0.187 |
| **KRC0114** | 14 | 15 | 1 | 0.238 |
| **KRC0114** | 22 | 23 | 1 | 0.161 |
| **KRC0114** | 23 | 24 | 1 | 0.745 |
| **KRC0114** | 24 | 25 | 1 | 0.293 |
| **KRC0114** | 25 | 26 | 1 | 0.1425 |
| **KRC0114** | 38 | 39 | 1 | 0.684 |
| **KRC0115** | 36 | 37 | 1 | 0.31 |
| **KRC0115** | 37 | 38 | 1 | 0.137 |
| **KRC0115** | 40 | 41 | 1 | 0.114 |
| **KRC0115** | 69 | 70 | 1 | 0.253 |
| **KRC0116** | | | NSI | |
| **KRC0117** | 13 | 14 | 1 | 0.116 |
| **KRC0117** | 14 | 15 | 1 | 0.115 |
| **KRC0117** | 29 | 30 | 1 | 0.326 |
| **KRC0117** | 31 | 32 | 1 | 0.175 |

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|---|---|---|---|---|
| **KRC0117** | 32 | 33 | 1 | 0.222 |
| **KRC0117** | 65 | 66 | 1 | 0.103 |
| **KRC0118** | 22 | 23 | 1 | 0.295 |
| **KRC0119** | | | NS | |
| **KRC0120** | 0 | 1 | 1 | 0.101 |
| **KRC0120** | 72 | 73 | 1 | 0.2497 |
| **KRC0121** | 21 | 22 | 1 | 0.141 |
| **KRC0122** | 7 | 8 | 1 | 0.183 |
| **KRC0122** | 9 | 10 | 1 | 0.365 |
| **KRC0122** | 10 | 11 | 1 | 0.101 |
| **KRC0122** | 11 | 12 | 1 | 0.356 |
| **KRC0122** | 12 | 13 | 1 | 1.159 |
| **KRC0122** | 13 | 14 | 1 | 0.933 |
| **KRC0122** | 14 | 15 | 1 | 0.734 |
| **KRC0122** | 15 | 16 | 1 | 1.8325 |
| **KRC0122** | 16 | 17 | 1 | 0.159 |
| **KRC0122** | 20 | 21 | 1 | 0.114 |
| **KRC0122** | 22 | 23 | 1 | 0.114 |
| **KRC0123** | 27 | 28 | 1 | 0.292 |
| **KRC0123** | 28 | 29 | 1 | 0.135 |
| **KRC0123** | 29 | 30 | 1 | 0.142 |
| **KRC0124** | 43 | 44 | 1 | 0.14 |
| **KRC0124** | 70 | 71 | 1 | 0.115 |
| **KRC0124** | 88 | 89 | 1 | 0.146 |
| **KRC0125** | | | NSI | |
| **KRC0126** | 19 | 20 | 1 | 0.118 |
| **KRC0127** | | | NSI | |
| **KRC0128** | 7 | 8 | 1 | 0.633 |
| **KRC0128** | 8 | 9 | 1 | 0.38 |
| **KRC0129** | 2 | 3 | 1 | 0.426 |
| **KRC0130** | 17 | 18 | 1 | 0.308 |
| **KRC0130** | 18 | 19 | 1 | 0.297 |
| **KRC0130** | 19 | 20 | 1 | 0.103 |
| **KRC0130** | 37 | 38 | 1 | 0.133 |
| **KRC0130** | 41 | 42 | 1 | 2.039 |
| **KRC0130** | 42 | 43 | 1 | 0.372 |
| **KRC0131** | 31 | 32 | 1 | 0.125 |
| **KRC0132** | 57 | 58 | 1 | 0.116 |
| **KRC0132** | 61 | 62 | 1 | 0.231 |
| **KRC0133** | 70 | 71 | 1 | 0.321 |
| **KRC0133** | 71 | 72 | 1 | 0.137 |
| **KRC0133** | 72 | 73 | 1 | 0.114 |
| **KRC0133** | 73 | 74 | 1 | 0.126 |
| **KRC0133** | 74 | 75 | 1 | 0.247 |
| **KRC0133** | 75 | 76 | 1 | 0.423 |
| **KRC0133** | 85 | 86 | 1 | 0.13 |
| **KRC0133** | 88 | 89 | 1 | 0.13 |
| **KRC0133** | 101 | 102 | 1 | 0.121 |
| **KRC0135** | 73 | 74 | 1 | 0.129 |
| **KRC0135** | 76 | 77 | 1 | 0.113 |

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|---|---|---|---|---|
| **KRC0135** | 78 | 79 | 1 | 0.188 |
| **KRC0135** | 105 | 106 | 1 | 0.127 |
| **KRC0136** | 55 | 56 | 1 | 0.147 |
| **KRC0136** | 58 | 59 | 1 | 0.143 |
| **KRC0136** | 59 | 60 | 1 | 0.1215 |
| **KRC0136** | 79 | 80 | 1 | 0.531 |
| **KRC0137** | 29 | 30 | 1 | 0.127 |
| **KRC0138** | 88 | 89 | 1 | 0.217 |
| **KRC0138** | 93 | 94 | 1 | 0.305 |
| **KRC0138** | 94 | 95 | 1 | 0.1325 |
| **KRC0138** | 109 | 110 | 1 | 0.181 |
| **KRC0138** | 110 | 111 | 1 | 0.409 |
| **KRC0138** | 111 | 112 | 1 | 0.141 |
| **KRC0138** | 112 | 113 | 1 | 0.177 |
| **KRC0138** | 115 | 116 | 1 | 0.281 |
| **KRC0138** | 116 | 117 | 1 | 0.313 |
| **KRC0138** | 117 | 118 | 1 | 0.225 |
| **KRC0138** | 118 | 119 | 1 | 0.204 |
| **KRC0138** | 119 | 120 | 1 | 0.129 |
| **KRC0138** | 120 | 121 | 1 | 0.1075 |
| **KRC0139** | 98 | 99 | 1 | 0.101 |
| **KRC0139** | 99 | 100 | 1 | 0.516 |
| **KRC0139** | 100 | 101 | 1 | 0.185 |
| **KRC0139** | 104 | 105 | 1 | 0.169 |
| **KRC0139** | 111 | 112 | 1 | 0.11 |
| **KRC0139** | 118 | 119 | 1 | 0.388 |
| **KRC0139** | 119 | 120 | 1 | 0.113 |
| **KRC0140** | 46 | 47 | 1 | 0.291 |
| **KRC0140** | 48 | 49 | 1 | 0.104 |
| **KRC0140** | 65 | 66 | 1 | 0.527 |
| **KRC0140** | 66 | 67 | 1 | 0.349 |
| **KRC0140** | 67 | 68 | 1 | 0.16 |
| **KRC0141** | 104 | 105 | 1 | 0.127 |
| **KRC0141** | 105 | 106 | 1 | 0.108 |
| **KRC0141** | 108 | 109 | 1 | 1.694 |
| **KRC0141** | 109 | 110 | 1 | 0.123 |
| **KRC0141** | 113 | 114 | 1 | 0.622 |
| **KRC0141** | 114 | 115 | 1 | 0.927 |
| **KRC0141** | 115 | 116 | 1 | 0.118 |
| **KRC0142** | 31 | 32 | 1 | 0.152 |
| **KRC0142** | 33 | 34 | 1 | 0.453 |
| **KRC0142** | 34 | 35 | 1 | 0.235 |
| **KRC0142** | 35 | 36 | 1 | 0.161 |
| **KRC0142** | 37 | 38 | 1 | 0.138 |
| **KRC0143** | 66 | 67 | 1 | 0.152 |
| **KRC0143** | 71 | 72 | 1 | 1.066 |
| **KRC0143** | 72 | 73 | 1 | 0.859 |
| **KRC0143** | 73 | 74 | 1 | 0.148 |
| **KRC0143** | 75 | 76 | 1 | 0.185 |
| **KRC0143** | 88 | 89 | 1 | 0.275 |

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|---|---|---|---|---|
| **KRC0143** | 89 | 90 | 1 | 0.113 |
| **KRC0144** | 102 | 103 | 1 | 0.451 |
| **KRC0144** | 103 | 104 | 1 | 0.303 |
| **KRC0144** | 104 | 105 | 1 | 0.1265 |
| **KRC0144** | 105 | 106 | 1 | 0.187 |
| **KRC0144** | 108 | 109 | 1 | 0.105 |
| **KRC0144** | 111 | 112 | 1 | 0.249 |
| **KRC0144** | 113 | 114 | 1 | 0.195 |
| **KRC0144** | 114 | 115 | 1 | 0.376 |
| **KRC0144** | 115 | 116 | 1 | 0.108 |
| **KRC0144** | 116 | 117 | 1 | 0.117 |
| **KRC0144** | 118 | 119 | 1 | 0.321 |
| **KRC0144** | 121 | 122 | 1 | 0.215 |
| **KRC0145** | 46 | 47 | 1 | 0.35 |
| **KRC0145** | 48 | 49 | 1 | 0.3105 |
| **KRC0145** | 49 | 50 | 1 | 0.587 |
| **KRC0145** | 50 | 51 | 1 | 0.262 |
| **KRC0145** | 52 | 53 | 1 | 0.297 |
| **KRC0146** | 11 | 12 | 1 | 1.089 |
| **KRC0146** | 12 | 13 | 1 | 0.708 |
| **KRC0146** | 14 | 15 | 1 | 1.683 |
| **KRC0146** | 15 | 16 | 1 | 0.288 |
| **KRC0146** | 16 | 17 | 1 | 0.263 |
| **KRC0146** | 18 | 19 | 1 | 0.13 |
| **KRC0146** | 19 | 20 | 1 | 0.239 |
| **KRC0146** | 20 | 21 | 1 | 0.232 |
| **KRC0146** | 40 | 41 | 1 | 0.224 |
| **KRC0147** | 35 | 36 | 1 | 0.231 |
| **KRC0147** | 43 | 44 | 1 | 0.46 |
| **KRC0147** | 44 | 45 | 1 | 0.161 |
| **KRC0147** | 50 | 51 | 1 | 0.111 |
| **KRC0148** | 4 | 5 | 1 | 0.445 |
| **KRC0148** | 5 | 6 | 1 | 0.174 |
| **KRC0149** | 0 | 1 | 1 | 0.119 |
| **KRC0149** | 42 | 43 | 1 | 0.555 |
| **KRC0149** | 44 | 45 | 1 | 0.257 |
| **KRC0150** | 9 | 10 | 1 | 0.101 |
| **KRC0150** | 10 | 11 | 1 | 0.309 |
| **KRC0150** | 11 | 12 | 1 | 0.344 |
| **KRC0150** | 12 | 13 | 1 | 0.181 |
| **KRC0151** | 18 | 19 | 1 | 0.378 |
| **KRC0151** | 19 | 20 | 1 | 1.256 |
| **KRC0151** | 20 | 21 | 1 | 0.2735 |
| **KRC0151** | 21 | 22 | 1 | 0.204 |
| **KRC0151** | 23 | 24 | 1 | 0.389 |
| **KRC0151** | 24 | 25 | 1 | 0.136 |
| **KRC0151** | 25 | 26 | 1 | 0.155 |
| **KRC0152** | | | NSI | |
| **KRC0153** | | | NSI | |
| **KRC0154** | 21 | 22 | 1 | 0.436 |

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|---|---|---|---|---|
| **KRC0154** | 22 | 23 | 1 | 0.779 |
| **KRC0154** | 23 | 24 | 1 | 0.131 |
| **KRC0154** | 24 | 25 | 1 | 0.204 |
| **KRC0154** | 38 | 39 | 1 | 0.21 |
| **KRC0154** | 39 | 40 | 1 | 0.424 |
| **KRC0154** | 48 | 49 | 1 | 0.1625 |
| **KRC0154** | 51 | 52 | 1 | 0.135 |
| **KRC0154** | 60 | 61 | 1 | 0.109 |
| **KRC0154** | 61 | 62 | 1 | 1.201 |
| **KRC0154** | 62 | 63 | 1 | 0.336 |
| **KRC0154** | 64 | 65 | 1 | 0.121 |
| **KRC0155** | 33 | 34 | 1 | 0.105 |
| **KRC0155** | 36 | 37 | 1 | 0.1035 |
| **KRC0155** | 47 | 48 | 1 | 0.407 |
| **KRC0155** | 48 | 49 | 1 | 0.113 |
| **KRC 0155** | 49 | 50 | 1 | 0.346 |
| **KRC0155** | 50 | 51 | 1 | 1.643 |
| **KRC0155** | 51 | 52 | 1 | 1.904 |
| **KRC0155** | 52 | 53 | 1 | 0.177 |
| **KRC0155** | 53 | 54 | 1 | 0.849 |
| **KRC0155** | 58 | 59 | 1 | 1.866 |
| **KRC0155** | 59 | 60 | 1 | 1.645 |
| **KRC0155** | 60 | 61 | 1 | 0.218 |
| **KRC0156** | 5 | 6 | 1 | 0.225 |
| **KRC0156** | 10 | 11 | 1 | 0.26 |
| **KRC0156** | 11 | 12 | 1 | 0.348 |
| **KRC0156** | 12 | 13 | 1 | 0.71 |
| **KRC0156** | 13 | 14 | 1 | 0.422 |
| **KRC0156** | 14 | 15 | 1 | 0.213 |
| **KRC0156** | 15 | 16 | 1 | 0.166 |
| **KRC0156** | 16 | 17 | 1 | 0.161 |
| **KRC0156** | 17 | 18 | 1 | 0.3025 |
| **KRC0156** | 18 | 19 | 1 | 0.506 |
| **KRC0156** | 19 | 20 | 1 | 0.237 |
| **KRC0156** | 20 | 21 | 1 | 0.282 |
| **KRC0157** | 59 | 60 | 1 | 0.198 |
| **KRC0157** | 60 | 61 | 1 | 0.659 |
| **KRC0157** | 61 | 62 | 1 | 0.214 |
| **KRC0157** | 62 | 63 | 1 | 0.316 |
| **KRC0157** | 63 | 64 | 1 | 0.343 |
| **KRC0157** | 64 | 65 | 1 | 0.478 |
| **KRC0157** | 65 | 66 | 1 | 0.165 |
| **KRC0157** | 66 | 67 | 1 | 0.354 |
| **KRC0157** | 67 | 68 | 1 | 0.71 |
| **KRC0157** | 68 | 69 | 1 | 8.235 |
| **KRC0157** | 69 | 70 | 1 | 0.849 |
| **KRC0157** | 70 | 71 | 1 | 0.358 |
| **KRC0157** | 71 | 72 | 1 | 0.206 |
| **T5** | 4 | 7.05 | 3.05 | 0.18 |

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|---|---|---|---|---|
| **T5** | 16 | 17.8 | 1.8 | 0.17 |
| **T7** | 5 | 6.5 | 1.5 | 0.3 |
| **T7** | 8.7 | 9.7 | 1 | 0.29 |
| **T7** | 11.8 | 13.7 | 1.9 | 0.74 |
| **T8** | 17.2 | 18.7 | 1.5 | 0.16 |
| **T8** | 19.7 | 21.2 | 1.5 | 0.18 |
| **T8** | 21.2 | 22.7 | 1.5 | 0.11 |
| **T8** | 41.6 | 43.6 | 2 | 0.34 |
| **T8** | 52.7 | 53.8 | 1.1 | 0.14 |
| **T8** | 61.8 | 63.4 | 1.6 | 0.3 |
| **T8** | 64.9 | 66.4 | 1.5 | 0.67 |
| **T8** | 70 | 71.5 | 1.5 | 0.13 |
| **T8** | 71.5 | 73.5 | 2 | 0.19 |
| **T8** | 75.5 | 77 | 1.5 | 0.13 |
| **T10** | 6 | 7 | 1 | 0.48 |
| **T10** | 8 | 9 | 1 | 0.16 |
| **T10** | 21 | 22 | 1 | 0.37 |
| **T10** | 28 | 29 | 1 | 0.52 |
| **T10** | 29 | 30 | 1 | 0.86 |
| **T10** | 31 | 32 | 1 | 0.23 |
| **T10** | 33 | 34 | 1 | 0.43 |
| **T10** | 38 | 39 | 1 | 0.29 |
| **T11** | 7.5 | 9 | 1.5 | 0.12 |
| **T11** | 9 | 10.5 | 1.5 | 0.12 |
| **T11** | 13.5 | 15 | 1.5 | 0.59 |
| **T11** | 15 | 16.5 | 1.5 | 0.19 |

**Appendix 3: Rock Chip Sample Results**

| Sample | Sample Type | Easting | Northing | RL m | $WO_3$% |
|---|---|---|---|---|---|
| **KS0003** | Rock chip | 351787 | 7480139 | 160 | 0.180 |
| **KS0004** | Rock chip | 351818 | 7480176 | 168 | 0.066 |
| **KS0005** | Rock chip | 351821 | 7480163 | 166 | 0.149 |
| **KS0006** | Rock chip | 351824 | 7480152 | 164 | 0.288 |
| **KS0008** | Rock chip | 351846 | 7480176 | 171 | 0.182 |
| **KS0011** | Rock chip | 351918 | 7480203 | 170 | 0.115 |
| **KS0012** | Rock chip | 352356 | 7481330 | 156 | 0.941 |
| **KS0013** | Rock chip | 352503 | 7481319 | 156 | 0.495 |
| **KS0014** | Rock chip | 352036 | 7481407 | 154 | 0.438 |
| **KS0015** | Rock chip | 351370 | 7481167 | 160 | 0.073 |
| **KS0016** | Rock chip | 351365 | 7481333 | 160 | 1.674 |
| **KS0017** | Rock chip | 351284 | 7481269 | 166 | 0.974 |
| **KS0018** | Rock chip | 351756 | 7481286 | 162 | 0.124 |
| **KS0019** | Rock chip | 351574 | 7481128 | 173 | 0.484 |
| **KS0020** | Rock chip | 351474 | 7481189 | 162 | 0.723 |
| **KS0021** | Rock chip | 351457 | 7481362 | 155 | 0.409 |
| **KS0022** | Rock chip | 352499 | 7480492 | 209 | 0.563 |
| **KS0023** | Rock chip | 352436 | 7480574 | 197 | 0.357 |
| **KS0024** | Rock chip | 352835 | 7480727 | 192 | 0.148 |
| **KS0025** | Rock chip | 352849 | 7480830 | 187 | 0.985 |
| **KS0044** | Rock chip | 352335 | 7479755 | 164 | 0.174 |

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| **KS0048** | Rock chip | 352626 | 7479926 | 162 | 0.142 |
| **KS0067** | Rock chip | 350224 | 7481465 | 139 | 1.015 |
| **KS0080** | Rock Chip | 350270 | 7481343 | 145 | 1.618 |

All Co-ordinates reported in MGA94_Z50

## JORC Code, 2012 Edition – Table 1 report template

### Section 1 Sampling Techniques and Data

(Criteria in this section apply to all succeeding sections.)

| Criteria | JORC Code explanation | Commentary |
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| ***Sampling techniques*** | • *Nature and quality of sampling (eg cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling.*<br>• *Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.*<br>• *Aspects of the determination of mineralisation that are Material to the Public Report.*<br>• *In cases where 'industry standard' work has been done this would be* | • The Project was drilled using Reverse Circulation (RC) and Diamond Drilling (DD) over several drilling campaigns. The latest drilling campaign was completed by Tungsten Mining utilising RC and diamond drilling.<br>• A total of 158 Tungsten Mining RC drillholes (13,750m) were drilled and the majority of the holes were drilled at approximately $60^0$. 29 HQ diamond holes (2,957m) were drilled in total and 9 of these holes (286m) were drilled to twin RC holes. 8 PQ diamond drillholes were completed to collect metallurgical samples.<br>• All Tungsten Mining drillhole collar locations were picked-up by a licensed surveyor. In 2013 the surveyor used a Topcon HiPer II RTK GPS and in 2014 collar locations were picked-up by a Leica GS15 RTK GPS Viva System. Pickup accuracy of was 10mm horizontal and 20mm vertical for both surveys.<br>• Downhole surveying was initially measured by the drill contractors using either a Reflex EZ-Shot Downhole Survey Instrument for DD holes (2012/2013) or the Pathfinder survey instrument for RC drilling and for 2014 DD holes. Tungsten Mining completed additional downhole surveys on open holes using a gyroscopic probe. Approximately 84% of recent drilling has gyroscopic surveys.<br>• Certified standard and blanks samples were inserted into the sample sequences in according to Tungsten Mining QAQC procedures. Duplicate samples were collected to check repeatability of sampling and variability or nugget effect for tungsten mineralisation. Results from this QAQC sampling were considered excellent.<br>• The RC drilling crew collected 1 metre intervals from the cyclone and then riffle split the bulk sample to produce two representative 2 – 4 kilogram samples in calico bags. The riffle splitter was cleaned by mechanical vibration and hosing |

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| | | *relatively simple (eg 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (eg submarine nodules) may warrant disclosure of detailed information.* | with pressurised air to eliminate sample contamination. One of the calico samples is for analysis and the second duplicate sample is retained as a reference sample for possible reanalysing / QAQC activities.<br>• For HQ diamond holes the mineralised and adjacent material was split using a diamond saw produce a half core sample. Sample intervals were defined by geological intervals and range from 0.3 – 1.2m. Core was orientated and the same side of the core was submitted for analysis. One half of the cut core is left in core boxes and retained in core storage. Sampling was extended 5 – 10 metres in both directions from mineralized zones. The core that is not sampled is kept uncut.<br>• Samples collected before October 2014 were submitted to Ultra Trace Laboratories of Perth for analysis by XRF Tungsten and Molybdenum Ore - Extended Suite. Sample collected in October and November 2014 were<br>• submitted to Nagrom Laboratory of Kelmscott for analysis (Tungsten and 25 other elements) by XRF. |
| ***Drilling techniques*** | • | *Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (eg core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc).* | • Tungsten Mining have completed 158 RC drillholes in three main programs at Zones 8, 11 and 12. RC holes depths ranged from 10 to 174 m, averaging 87 m. RC drilling used a face-sampling hammer that produced a nominal 140m diameter hole.<br>• Tungsten Mining drilled 29 HQ3 and 8 PQ3 diamond drillholes. Diamond holes were drilled from 30 to 179m, averaging 92m. Core was orientated using either an Ace Orientation tool or an OriShot Orientation tool.<br>• Tungsten Mining diamond drill and RC holes were surveyed in-rods at 30 meter intervals using a Pathfinder survey instrument. Open holes were later surveyed utilizing a gyroscopic probe. |
| ***Drill sample recovery*** | • | *Method of recording and assessing core and chip sample recoveries and results assessed.* | • RC recovery was visually assessed, recorded on drill logs and considered to be acceptable within the mineralized zones.<br>• Diamond core recovery is logged and recorded in the database. No significant core loss issues exists.<br>• Diamond core was reconstructed into continuous runs for orientation marking, depths being |

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| | • *Measures taken to maximise sample recovery and ensure representative nature of the samples.*<br>• *Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.* | checked against the depth marked on the core blocks and core recovery.<br>• RC samples were visually checked for recovery, moisture and contamination. A cyclone and splitter were used to provide a uniform sample and these were routinely cleaned. The drill contractor blew out the hole at the beginning of each drill rod to remove excess water and maintain dry samples.<br>• Sample Recovery for diamond holes is generally very high (over 99%) within the mineralised zones. Ground conditions for RC drilling were good and drilling returned consistent size samples.<br>• No significant bias is expected, and any potential bias is not considered material at this stage. |
| ***Logging*** | • *Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.*<br>• *Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.*<br>• *The total length and percentage of the relevant intersections logged.* | • Tungsten Mining uses specially designed drill logs for skarn type deposits to capture the geological data. The modified log sheet lists percentages of various important skarn minerals.<br>• During logging part of the RC sample is washed, logged and placed into chip trays. The chip trays are stored in a designated building at site.<br>• Diamond core was geotechnically logged for recovery and RQD. Information on structure, lithology and alteration zones were recorded. Diamond core trays are stored on the site for future reference.<br>• All drill data is digitally captured and stored in a central database.<br>• Diamond core and RC chips logging included records of lithology, mineralogy, textures, oxidation state and colour. Visual estimates of percentages of key minerals associated with tungsten mineralization and<br>• veining are made. Core was photographed in both daylight and UV light to estimate scheelite content.<br>• All drill holes were logged in full |
| ***Sub-sampling techniques and sample preparation*** | • *If core, whether cut or sawn and whether quarter, half or all core taken.*<br>• *If non-core, whether riffled,* | • All HQ diamond drill core was cut in half by an Almonte diamond saw. The PQ metallurgical KDD0016 was crushed to 10mm and a 2 – 3 kg portion split of for assaying. The remaining 7 PQ holes will be assayed before metallurgical sampling.<br>• RC samples were collected on the rig using a cyclone and put through a riffle splitter to produce |

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| | *tube sampled, rotary split, etc and whether sampled wet or dry.*<br>• *For all sample types, the nature, quality and appropriateness of the sample preparation technique.*<br>• *Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.*<br>• *Measures taken to ensure that the sampling is representative of the in situ material collected, including for instance results for field duplicate/second-half sampling.*<br>• *Whether sample sizes are appropriate to the grain size of the material being sampled.* | two 2 – 4 kg samples. Almost all samples were dry and no mineralised intervals were recorded as having wet samples.<br>• Samples were dried, crushed to 100% passing 6.3mm using a jaw crushers. Samples in excess of 2kg are riffle split and pulverised to 80% passing 75µm in LM5 pulveriser.<br>• Field QAQC procedures included the insertion of field duplicates, blanks and commercial standards. Standards were inserted at intervals of 30.<br>• Duplicate and blanks were inserted behind mineralised samples on a one in 30 sample basis.<br>• Approximately 1 in 30 RC field duplicates were taken from 1m riffle split samples at the rig. Repeatability in RC duplicate samples was found to be excellent.<br>• Half core samples were duplicated by quarter core samples. Repeatability of these samples was considered good, but demonstrated the particulate or nuggety nature of the scheelite mineralization.<br>• Nine diamond holes were drilled to twin RC drilling. These holes intersected similar zones of mineralization at target depths and again showed the particulate or nuggety nature of tungsten mineralization. Overall contained metal was similar<br>• Sample sizes are considered to be appropriate to accurately represent the tungsten mineralisation at Kilba based on the thickness and consistency of the intersections, the sampling methodology and the percent value assay ranges for the primary elements. Sample sizes are considered to be appropriate to accurately represent the tungsten mineralisation at Kilba based on the thickness and consistency of the intersections, the sampling methodology and the percent value assay ranges for the primary elements. |
| ***Quality of assay data and laboratory tests*** | • *The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.*<br>• *For geophysical tools,* | • XRF has proven to be a very accurate analytical technique for a wide range of base metals, trace elements and major constituents found in rocks and mineral materials. Glass fusion XRF is utilised for assaying, since it provides good accuracy and precision; it is suitable for analysis from very low levels up to very high levels<br>• A handheld magnetic susceptibility meter (KT-10) was used to measure magnetic susceptibility for every sample. Data is stored in the database.<br>• All drilling in 2014 had downhole natural gamma, caliper, guard resistivity and density measurement collected by a HDCT Dual Density Logging Tool. |

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| | *spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.*<br>• *Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established.* | • Field QAQC procedures included the insertion of field duplicates, blanks and commercial standards. Assay results have been satisfactory demonstrating acceptable levels of accuracy and precision. |
| ***Verification of sampling and assaying*** | • *The verification of significant intersections by either independent or alternative company personnel.* | • No independent personnel have verified intersections in RC or DD drilling. TGN personnel conducted UV lamping to visually estimate scheelite content and confirm drill intersections.. |
| | • *The use of twinned holes.* | • RC holes that intercepted high grades zones were verified by closely drilled diamond twin holes in 2013 and 2014. |
| | • *Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.* | • Logging took place at the drilling site. Panasonic Toughbook computers were used to record the logging.<br>• A set of standard Excel templates were used to capture the data. Data was validated on-site by the supervising geologist before being sent to Perth office. Drill logs were then loaded into Micromine and validated for logging codes, missing intervals, overlapping intervals, hole location and downhole surveying. Validated data is then loaded into a relational database for storage. |

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| | • *Discuss any adjustment to assay data.* | • No adjustments were made, other than for values below the assay detection limit which have been entered as the negative of the detection limit |
| ***Location of data points*** | • *Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.*<br>• *Specification of the grid system used.*<br>• *Quality and adequacy of topographic control.* | • Once each drillhole is drilled to the targeted depth, it is routinely downhole surveyed. Downhole surveying was measured by the drill contractors using either a Pathfinder survey instrument or a Reflex EZ-Shot Downhole Survey Instrument. All drillholes had measurements covering the length of the hole with the reported accuracy of ±2 degrees. The instrument measures magnetic azimuth and dip. The correction for magnetic azimuth (0.8 degrees) is applied when the drillhole database is processed.<br>• Tungsten Mining completed additional downhole surveys on open holes using a gyroscopic probe. Due to hole blockages, only 84% of drilling has gyroscopic surveys with reported accuracy of ± 1.0 degrees for azimuth and ± 0.1 degrees for dip.<br>• Holes have been picked up using a Carlson Surveyor + DGPG unit to sub-metre accuracy. Periodically drillhole collar locations were picked-up by a licensed surveyor using either a Topcon HiPer II RTK GPS or a Leica GS15 RTK GPS Viva System (accuracy - 10mm horizontal and 20mm vertical).<br>• The grid system is MGA GDA94 Zone 50.<br>• AAM Pty Limited (AAM) was commissioned to fly aerial photography of the area in November of 2012 to obtain detailed topographic surface. AAM provided Tungsten Mining with a surface Digital Terrain Model (DTM) with 0.15 m vertical accuracy, 0.5 m contours and a 15 centimetre (cm) resolution digital orthophoto. |
| ***Data spacing and distribution*** | • *Data spacing for reporting of Exploration Results.*<br>• *Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource* | • Drill holes were generally drilled using 40 x 40 m grid for Zone 11 and Zones 8.<br>• Selected sections have 20m infill holes. Zone 11 was drilled at a 80 x 40 m spacing.<br>• The data spacing and distribution is sufficient to demonstrate spatial and grade continuity of the mineralised horizon to support the definition of Inferred/Indicated Mineral Resources under the 2012 JORC code.<br>• For non-mineralised intervals 1 m samples were composited into 5m composite samples for RC. Any anomalous composite samples had the 1m riffle split samples submitted for analysis. |

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| | *and Ore Reserve estimation procedure(s) and classifications applied.*<br>• *Whether sample compositing has been applied.* | |
| ***Orientation of data in relation to geological structure*** | • *Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.*<br>• *If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.* | • The drill sections have been orientated approximately perpendicular to the strike of the mineralised skarn units observed at Kilba. Holes are dominantly drilled at -60º towards skarn units to return intervals with thickness as true as possible.<br>• Diamond drilling has confirmed that drilling orientation did not introduce any bias regarding the orientation of the skarn units. |
| ***Sample security***<br><br>***Audits or reviews*** | • *The measures taken to ensure sample security.*<br><br>• *The results of any audits or reviews of sampling techniques and data.* | • All sample numbers are generated in the site office. Once samples intervals are selected, the numbers are assigned to each sample. The sample number, drillhole name and sampled interval are recorded in the sampling sheets. All sample bags were properly sealed and transported to Nanutarra roadhouse where they are couriered to the laboratory in Perth<br>• Sampling techniques deemed to be consistent with industry standards. Consistency of data was validated by TGN while loading into the database (Depth from < Depth to; interval is within hole depth, check for overlapping samples or intervals, etc.). Any data which fails the database constraints and cannot be loaded is returned for validation, etc.).<br>• Global consistency was also checked later on by plotting sections using the database and |

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| | reconciling assays. All samples were viewed under UV light and visual estimates of scheelite content recorded. These estimates were compared against assay grades. |

## Section 2 Reporting of Exploration Results

(Criteria listed in the preceding section also apply to this section.)

| Criteria | JORC Code Explanation | Commentary |
|---|---|---|
| ***Mineral tenement and land tenure status*** | • *Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.*<br>• *The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.* | **Kilba Tungsten Project**<br>• Mammoth, through its wholly owned subsidiary M79 WA Pty Ltd, has entered into a binding agreement to acquire 80% of the issued shares in Cuvier Resources Pty Ltd, the applicant for E08/3806. At Completion, Cuvier will grant a 2% FOB royalty to the Vendor.<br>• The Kilba Tungsten Project comprises of an Exploration licence (Currently in application) E08/3806 under Cuvier Resources Pty Ltd, application date 24/4/2025. Covering 2 BL. Units.<br>• Application is first in time with no overlapping applications<br>• An objection has been lodged by the Pastoralist and a native title agreement is required to be entered into |
| ***Exploration done by other parties*** | • *Acknowledgment and appraisal of exploration by other parties.* | • There has been exploration for a variety of commodities on ground covered by both Prospects. Open file reports detailing this work can be found at the WA Department of Mines and Petroleum . What follows is an account of historical exploration focussed on tungsten mineralisation<br>• The majority of the work that led to the delineation of tungsten mineralisation at Kilba was completed by Australia and New Zealand Exploration Company (ANZECO) between 1973 and 1981. Between 1973 and 1974, ANZECO conducted a heavy mineral concentrate stream sediment sampling programme over the Kilba area. Tungsten |

mineralisation was confirmed through scheelite grain counting and ultraviolet lamp detection.

- The source of the tungsten mineralisation was traced to a number of mineralised skarn hosting scheelite, altered marbles and calc-silicate units, over which Mineral Claims were pegged. The area covered by the original Mineral Claims lies within the tenure that has been acquired by Tungsten Mining. Over the period 1974-1975, geological mapping, costeaning and diamond drilling were completed. Nine costeans were excavated over a total length of 325m, and six of the costeans were channel sampled returning numerous significant WO3 assays in the range of 0.13 - 0.71% over apparent widths of up to 3.4m. Nine diamond drillholes were cored for 645m. The drilling tested to a maximum vertical depth of approximately 125m, and the most encouraging results were returned from two areas known as Zone 11 and Zone 8.
- At Zone 11, mineralised intercepts of up to 7.65m at 0.8% WO; were encountered (DDH04). A further nine diamond drillholes were completed during 1975 at Zone 11 and Zone 8. The drilling tested to a maximum vertical depth of approximately 150m. At Zone 11, significant skarn altered 2015 sections of carbonate and calc-silicate rock were intersected in four drillholes, but with erratic mineralisation. Strong tungsten mineralisation was intersected, including an intercept of 3.17m at 5.35% WO; (DDH19).
- At Zone 8, granite dykes generally prevented intersections being made with the outcropping horizons. Only two holes intersected narrow intercepts of skarn altered carbonate or calc-silicate rock. The mineralisation at Zone 8 included a best result of 3.0m at 1.81% WO; (Middleton, 1981b). In 1976 and 1977, 13 diamond drillholes for a total of 1,231m were completed. Most of the drilling campaign (ten holes) was directed at Zone 11, which was proving to be the most continuous zone of mineralisation. Two holes were cored into Zone 8 and one hole was drilled into the Zone 10 in the south-eastern quadrant of the claim area.
- An additional seven costeans were excavated. Four of the costeans were through Zone 11 and returned channel samples ranging from 0.3% up to 0.86% WO3. One costean through Zone 8 yielded channel sample assays ranging from 0.34% up to 1.60% WO3. A single costean was sunk into each of Zone 10, and Zone 9 (to the east of Zone 8). No

significant mineralisation was indicated in the Zone 9 and Zone 10 costeans (Bell, 1977).

- During 1977, two samples from Zone 11, consisting of quartered drill core and costean surface material were submitted to Union Carbide for scheelite beneficiation sighter metallurgical test work. Sample (1) consisted of surface material from a costean at Zone 11 and sample (2) consisted of quartered drill core from various holes. The test work showed that a concentrate of > 65% WO; could be produced using a combination of gravity separation, low intensity magnetic separation (LIMS) and froth flotation
- During 1980, ANZECO planned a programme to determine whether tungsten occurrences other than Zone 11 and the western part of Zone 8 might amount to targets of suitable grade and tonnage, such as to warrant individual development or as supplement to Prospective tonnages at Zone 11. This was to be achieved by detailed mapping and night lamping followed up by diamond drilling the most promising occurrences.
- The geological mapping located additional drilling targets at Zone 8 and Zone 11. A new target area, Zone 12, was mapped on the northern flank of a granitic stock. Ten diamond drillholes were drilled for a total of 702m. Five holes were sited on the Zone 12 area, of which four returned significant tungsten mineralisation (> 0.1% WOs), including a best intercept of 3.98m at 0.23% WO; (DDH25, 51.4m to 56.05m). Of four holes drilled into Zone 8, three returned significant tungsten mineralisation, with a best result of 3.0m at 1.81% WO3. One diamond drillhole was positioned at the western extremity of Zone 11, intersecting up to 3.4m at 0.14% WO3 and 1.2m at 0.23% WO3.
- The results indicated that Zone 11 mineralisation has a strike extent of approximately one kilometre. Following the drilling programme it was deemed that there was insufficient drill data to calculate ore reserves; ANZECO produced estimates during 1980, with the figures and parameters documented in Middleton (1981).
- During 2005, the Kilba Project was included in a portfolio of tungsten projects in the Pilbara region, in an initial public offering launched under the name of Vital Minerals Ltd “Vital”. Work completed by Vital included verification of previous exploration activities, reconnaissance mapping, the purchase of Landsat imagery and the commissioning of a magnetic and radiometric survey. Vital planned to implement a drilling

programme to confirm the continuity of the skarn horizons, however their focus shifted to West African gold exploration and no further work was completed.

- In April 2012, Tungsten Mining staff made a four day visit to the company's Pilbara Project to ground truth and validate historic data and work programs. In January 2013, Dr Martin Hughes, a specialist in skarn mineralisation, accompanied Tungsten Mining geologists to the Prospects in the Pilbara. Time was spent investigating the Kilba skarns in the field and drill core from the drilling campaign.
- During the visit 41 core samples were cut from diamond holes KDDO003 and KDDO0006 with 51 thin sections prepared and described. Dr Hughes compiled a report detailing the findings of his trip, classifying the skarn types and associated minerals, and gave recommendations for Tungsten Mining on how to proceed with the project.
- October 2012, staff from Tungsten Mining and SJS Resource Management spent five days locating historical collars left by the ANZECO diamond drilling campaign in the 1970's and 1980's. Holes that were not located have subsequently had collar locations reviewed and corrected where necessary based on known features (trenches and tracks) located on ANZECO drill plans and sections.
- November 2012, AAM Pty Ltd flew detailed Colour Aerial Photography over M08/314 for Tungsten Mining. From this photography AMM Pty Ltd generated a Digital Terrain Model (DTM). Data supplied included a DTM surface with 0.15m vertical accuracy, 0.5m contours and a 15cm resolution digital orthophoto.
- Between November and February 2013 Tungsten Mining drilled 23 HQ/HQ3 diamond holes (KDDO001 — KDD0015, KDD0017 — KDDO23, KDD0025) for 2681.47 metres and one PQ3 diamond hole (KDD0016) for 65.80 metres. The objective of the programme was to test high- grade tungsten mineralisation identified by ANZECO in the 1970s / 1980s associated with skarn and sedimentary units at Zone 11 on the Kilba Project. Drilling was entirely within M08/314.
- Between February 2013 and April 2013, Tungsten Mining drilled 43 reverse circulation (RC) holes (KRCO001 — KRCO042 and KRCO032B) for 4369 metres at Zone 11 of the Kilba Project. The RC drilling programme was designed to conduct pattern drilling on a 40 by 80 metre spacing of high-

grade tungsten mineralisation defined by the diamond drilling programme described above.

- The August–November 2014 programme included all three prospects and comprised a total of 115 RC holes for 9,391 m (KRC0043–157). The objective of the programme was to complete infill to a 40 m spacing for the Strategic Planning Envelope at Zone 8 and Zone 11 defined by CSA Global in May 2013, test strike extensions and conduct broad-spaced (80 m) drilling at Zone 12 where Union Carbide holes intersected significant tungsten mineralisation in the 1980s. Substantial thicknesses of medium- to high-grade tungsten mineralisation were identified at the Zone 8 prospect, which remained open to the west. Hole KSRC0157 returned the best result, with 13 m at 1.01% WO3 from 59 m in KSRC0157, including 1 m at 8.24% from 68 m. Drilling at the Zone 11 prospect was also encouraging, with significant intervals 3–20 m wide and grading at up to 0.96% WO3. Drillhole KRC0046 returned the best overall result, with an intercept of 14 m at 0.82% WO3 from 53 m. At the Zone 12 prospect, drilling intersected multiple zones of weak scheelite mineralisation. Hole KRC0082 intersected 2 m at 0.69% WO3 from 83 m.
- Detailed mapping was conducted over the entire Eye Structure at the Kilba Prospect in 2014. Mapping was completed to assist in drill planning, locate new tungsten occurrences and for target generation. Richard Russell from R. Russell and Associates Pty Ltd mapped six areas at scales ranging from 1:1,000 to 1:5,000. Twenty-nine rock chip samples were collected during mapping. First-pass (40 by 100 m grid) and orientation soil sampling programmes were conducted over parts of the Kilba project (M08/314) during May 2015. A total of 112 samples were acquired. The best results were obtained from the single orientation lines, with a maximum of 1,375 ppm W on one of the westernmost lines. The area in the northwest of M08/314 yielded a best result of 430 ppm W (sample A032148). No significant results were obtained from the area in the southeast of M08/314. Seven rock-chip samples were collected during the September 2015 geological mapping campaign, concentrated in the northwestern and southwestern corners of the Kilba project tenement M08/314. The best results were at the Star prospect in the northwest of the tenement, where 1.618% WO3 (KS0080) and 1.015% WO3 (sample KS0067) were obtained. The best result in

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| | | | the southeast of the tenement was 0.174% WO3 (KS0044).<br>• Three main trends of skarn-bearing calcsilicate are identified in the mapped area: • Star Trend. A trend of skarnoid calcsilicates extends east-northeast along the foot of the main northern range of the Kilba Dome. This includes the 'Star' Prospect which represents the eastern end of the trend. • Long Hill Trend. To the north of the Star Trend is a more substantial trend which includes the 'Long Hill' outcrops. • Zone 2. North of the Northeastern Carbonates is a series of narrow skarnoid calcsilicates trending west-northwest. The trend terminates in granites to the east and is repeated by folding in the west. This trend coincides with the 'Zone 2' prospect identified by earlier explorers. Results from the mapping indicate that it is likely the emplacement of the Kilba Dome was accompanied by regional, left-lateral wrenching orientated at about 215°–035° NE–SW on the northern flank. Faults are preferentially orientated in four directions, including about 310° (thought to be right lateral 'Y' Riedel shears), 015° ('X' left lateral Riedel shears), north–south to 340° (extension faults), and about 075° east-northeast (compression faults; thrust or reverse faults). |
| ***Geology*** | • | *Deposit type, geological setting and style of mineralisation.* | **Kilba Tungsten Project**<br>Regional Geology<br>Project area is underlain by metasediments and granitoids of late Early Proterozoic age, which form part of the Ashburton Fold Belt. Submarine fan and associated basin plain sediments such as conglomerates, wackes and mudstones comprise the bulk of the Ashburton Formation with localised shallow water quartzite, and carbonate deposits as in the project area.<br>The Ashburton trough sediments were folded into a NW-SE fold belt and locally intruded by granitoids on the western margins. Regional metamorphism in the project area, referred to as the Morrissey Metamorphic Suite, occurs as the dominant structural feature approximating an isoclinally folded antiformal anticline with a NNE trending fold axis, comprising rocks of the Morrissey Metamorphic Suite. The fold appears to have been subject to interference by a later episode of co-axial deformation, refolding the antiform about a NNE trending fold axis.<br>The metamorphic suite includes quartz-muscovite schist, amphibolite, marble and biotite- muscovite-quartz-feldspar gneiss associated with anatectic granitoids and a strong schistosity. Contact metamorphism, skarn alteration and tungsten |

mineralisation are also linked to this deformation and intrusion of the Kilba granite. A second phase of deformation is locally recorded in a crenulation cleavage accompanied by smaller scale tourmaline granite and pegmatite emplacement, subsequently in the Mid Proterozoic, ENE-WSW and N-S oriented dolerite dykes were emplaced.

A stratigraphic succession through the antiformal anticline, from oldest to youngest has been derived from reports by Mt Alexander Resources (Cavaney, 1993) and AMAX (Robinson, 1981), both historical operators in the area.

The amphibolites at the core of the antiform are derived from sedimentary (para-amphibolite) and igneous (ortho-amphibolite) protoliths. AMAX (Robinson, 1981) considers that at least some of the amphibolites were derived from submarine basalts, due to the absence of recognisable sedimentary structures and the presence of narrow continuous black shale horizons. Thin beds of cherty quartzite are observed within the sequence, often with extensive epidote alteration. Marble and skarn outcrops have been noted within the amphibolite sequence.

In the lower part of the dolomitic sequence, overlying the amphibolite sequence, shales are prevalent. Dolomite and dolomitic siltstones form the main part of this sequence, and have been the target for base metal exploration

Overlying and intercalated with the dolomitic sequence is a magnetite - bearing banded iron formation (BIF). The BIF stands out as a zone of high magnetic intensity and traces the limbs of the antiform. Muscovite schists and quartz +/- biotite muscovite schists derived from sandy siltstones and shales overly the BIF. AMAX noted occurrences of (para?) amphibolite, pebble conglomerates, marble, skarn, quartzite and a quartz-epidote-tremolite rock within this sequence.

A psammitic sequence consisting of quartz sandstones and siltstones occurs at the top of the stratigraphic succession. The quartzites are resistant to weathering and form ridges. AMAX noted a conglomerate at the base of this sequence, possibly corresponding to an unconformity.

Local Geology

The Kilba Project is dominated by an east-west trending elliptical dome of Kilba Granite, often referred to in historical reports as the “eye structure”. The rock is a medium to coarse grained quartz monzonite. This granite has intruded and deformed the Morrissey

Metamorphic sequence, producing several sets of dykes and sills.

The south-western margin of the granite is heavily greisenised. Recent diamond core logging has shown that the Morrissey Metamorphics locally comprise a sequence of calc-silicates, marbles, quartzites, amphibolites, quartz-mica schists and BIFs. The metamorphics wrap around the Kilba Granite, with the contact dipping away from the granite at the western end.

Northwest of the eye structure to Zone 12, dips are c.70° towards the north to northwest, whereas at Zone 11 stratigraphy is folded around the Kilba granite with shallower dips of between 15 to 60° to the south to southwest. The Morrissey Metamorphics from Zone 8 and further east are complexly folded with repetition of units and variable dips to the north and south.

Tungsten mineralisation at Kilba is associated with skarns and calc-silicate units that wrap around the Kilba granite. These skarns and calc-silicate units occur in a 40 to 100 metre wide carbonate-rich unit of the Morrissey Metamorphic suite and recent mapping has defined significant strike lengths of this unit around the Kilba granite. the north and eastern edges of the Kilba Granite, the target horizon is found in rafts and/or roof pendants of sediments within the granite and are complexly folded, faulted and disjointed. Scheelite mineralisation is associated with retrograde assemblages of vesuvianite, epidote or calcite altered garnet, wollastonite and pyroxene. The presence of fluorite associated with scheelite has also been noted. This skarn is predominantly hosted by carbonate and calc silicate rock proximal to the granite contact.

Mineralisation

At Zone 11, tungsten mineralisation dips from surface at 25 to 65 degrees toward the south to southwest and is associated with skarns and calc-silicate units. Typically, high-grade mineralisation is associated with retrograde skarn units which are often surrounded by low to medium grade disseminated scheelite mineralisation in calc-silicate and sedimentary units.

Toward the east of the prospect, tungsten mineralisation tends to occur in a single high-grade zone. In the central and western domains mineralisation is associated with multiple shallow dipping low to medium-grade units, and in Zone 8, skarn mineralisation dips steeply towards the north-northwest. Surface mapping has identified numerous skarn units at Zone 8 that have not been adequately

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| | | drill-tested and future exploration will focus on evaluating these targets. |
| ***Drill hole Information*** | • *A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes:*<br>○ *easting and northing of the drill hole collar*<br>○ *elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar*<br>○ *dip and azimuth of the hole*<br>○ *down hole length and interception depth*<br>○ *hole length.* | • Collar and location details as outlined in Tables in body of announcement.<br>• Summary of Drilling completed<br>• Total RC Drilling – 158 Holes, 13,760m<br>• Total HQ Drilling – 29 Holes, 2,967.1m<br>• Total PQ Drilling – 8 Holes, 465.3m |
| | • *If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case.* | • Not information available at the time of reporting has been excluded. |
| ***Data aggregation methods*** | • *In reporting Exploration Results, weighting averaging* | • Intersections are reported for all intervals greater than 2m at 0.10% WO3 using a lower cut-off grade 0.10% WO3, no top cut grade and up to 3.0m of |

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| | *techniques, maximum and/or minimum grade truncations (eg cutting of high grades) and cut-off grades are usually Material and should be stated.* | internal waste. All high-grade assays >1.0% WO3 are report beneath the relevant intersection. |
| | • *Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail.* | • All high-grade assays >1.0% $WO_3$ are reported. Interval waste up to 3m is included in intersections provided the adjacent zone and waste are >0.1% $WO_3$. |
| | • *The assumptions used for any reporting of metal equivalent values should be clearly stated.* | • Not applicable |
| ***Relationship between mineralisation widths and intercept lengths*** | • *These relationships are particularly important in the reporting of Exploration Results.*<br>• *If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.*<br>• *If it is not known and only the down hole lengths are* | • Drill hole angles of generally -60° toward the Northeast are adequate to drill mineralised skarn units<br>• Drilling is generally perpendicular to the strike of mineralisation.<br>• Holes intersect mineralisation at between 60 - 90° and true thickness will be between 70 – 100% of the intersection thickness.<br>• Geometry of the mineralisation with respect to the drill hole angle is known. |

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| | | *reported, there should be a clear statement to this effect (eg 'down hole length, true width not known').* | |
| ***Diagrams*** | • | *Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.* | Maps and diagrams have been included in the body of the announcement. |
| ***Balanced reporting*** | • | *Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.* | All Intersections greater than 2m at 0.10% WO3 are reported and hole with no significant mineralisation disclosed |
| ***Other substantive exploration data*** | • | *Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results;* | All exploration data considered meaningful and material has been reported in this announcement. |

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| | *bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.* | |
| ***Further work*** | • *The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).* | • Rock chip sampling<br>• Channel Sampling of costean zones<br>• Targeted geophysical surveys over mapped ore zones<br>• Drill targeting and permitting |
| | • *Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.* | Maps and diagrams have been included in the body of this release. Further releases will be made to market upon finalising of the proposed exploration programs. |

## Section 3 Estimation and Reporting of Mineral Resources

(Criteria listed in section 1, and where relevant in section 2, also apply to this section.)

| Criteria | JORC Code explanation | Commentary |
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| *Database integrity* | • *Measures taken to ensure that data has not been corrupted by, for example, transcription or keying errors, between its initial collection and its use for Mineral Resource estimation purposes.*<br>• *Data validation procedures used.* | • Data used in the Mineral Resource estimate is sourced from Micromine DAT files. All data was validated in Micromine software and verified that all the available data was submitted.<br>• Validation of the data import include checks for overlapping intervals, missing survey data, missing and incorrectly recorded assay data, |

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| | | missing lithological data and missing collars. |
| *Site visits* | • *Comment on any site visits undertaken by the Competent Person and the outcome of those visits.*<br>• *If no site visits have been undertaken indicate why this is the case.* | • Serikjan Urbisinov, Principal Resource Geologist for CSA Global Pty Ltd, conducted a site visit to the Kilba project area in March 2013. A site visit report was compiled and attached to the resource estimation report. |
| *Geological interpretation* | • *Confidence in (or conversely, the uncertainty of ) the geological interpretation of the mineral deposit.*<br>• *Nature of the data used and of any assumptions made.*<br>• *The effect, if any, of alternative interpretations on Mineral Resource estimation.*<br>• *The use of geology in guiding and controlling Mineral Resource estimation.*<br>• *The factors affecting continuity both of grade and geology.* | • There is a reasonable level of confidence in the geological interpretation of scheelite skarn that is traceable over numerous drill holes and drill sections and in surface mapping of the outcrops and trench exposures.<br>Any additional work is expected to have a reasonable prospect of increasing the interpreted total mineralised volumes in the tenement as there are significant areas that have not yet been drill tested along the granitic intrusion contact.<br>• Surface mapping of mineralised outcrop, drill hole intercept logging and assay results have formed the basis for the geological interpretation.<br>• The precise limits and geometry cannot be absolutely defined due to the limitations of the current drill coverage. Further work is required to better define the geometry and limits of the mineralised skarn zones, but no significant downside changes to the interpreted mineralised volume are anticipated.<br>• *The grade and lithological interpretation forms the basis for the modelling. Lithological envelopes defining the prospective skarns within which the grade estimation has been completed.*<br>• *The grade and lithological interpretation forms the basis for the modelling. Lithological envelopes defining the prospective skarns within which the grade estimation has been completed.*<br>• *Contact metamorphism, skarn alteration and tungsten mineralisation are also linked to the intrusion of the Kilba granite. The continuity of the mineralised zones* |

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| | | *is closely related to the contact with the central monzogranite stock that has a form of an elliptical dome. The scheelite content depends on the type of skarn present. Most scheelite is reportedly associated with the retrograde assemblage.* |
| *Dimensions* | • *The extent and variability of the Mineral Resource expressed as length (along strike or otherwise), plan width, and depth below surface to the upper and lower limits of the Mineral Resource.* | • *The currently interpreted skarns of Zone 11 extend for approximately 1.2 km along 300° NW strike. The width of the Zone 11 varies from 2m to 60m with maximum 10m thickness for individual mineralised envelopes. The dip angle of the zone varies from -60 degrees at the eastern side to -25 degrees on the western side. The zone extends from the surface to 150m below the surface.*<br>• *Skarns of Zone 8 extend for approximately 330 m at 50° NE direction and dip at -70 degrees. The width of the zone is approximately 50m.The maximal depth here is approximately 80m below surface.*<br>• *Skarn of Zone 12 extend 360m at 65° NE direction and dip at -70 degrees. The width of the zone is approximately 50m.The maximal depth here is approximately 90m below surface.* |
| *Estimation and modelling techniques* | • *The nature and appropriateness of the estimation technique(s) applied and key assumptions, including treatment of extreme grade values, domaining, interpolation parameters and maximum distance of extrapolation from data points. If a computer assisted estimation method was chosen include a description of computer software and parameters used.*<br>• *The availability of check estimates, previous estimates and/or mine production records and whether the Mineral Resource estimate takes appropriate account of such data.*<br>• *The assumptions made regarding recovery of by-products.*<br>• *Estimation of deleterious elements or other non-grade variables of economic significance (eg sulphur for acid mine drainage characterisation).*<br>• *In the case of block model interpolation, the block size in relation* | • *CSA made a decision that the model and sample composite files should be unfolded before geostatistical analysis and grade interpolation. Without unfolding the deposit would have to be domained according to the general dipping of different parts of the structures. In that case every structural domain would have to be estimated separately, and that would downgrade the reliability of the estimate.*<br>• *Grade estimation was by Multiple Indicator Kriging (MIK) using Micromine 2013 software. The interpretation was extended perpendicular to the corresponding first and last interpreted cross section to the distance equal to a half distance between the adjacent* |

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| | *to the average sample spacing and the search employed.*<br>• *Any assumptions behind modelling of selective mining units.*<br>• *Any assumptions about correlation between variables.*<br>• *Description of how the geological interpretation was used to control the resource estimates.*<br>• *Discussion of basis for using or not using grade cutting or capping.*<br>• *The process of validation, the checking process used, the comparison of model data to drill hole data, and use of reconciliation data if available.* | *exploration lines which is approximately 20m;*<br>• *If a mineralised envelope did not extend to the adjacent drillhole section, it was projected half way to the next section and terminated. The general direction and dip of the envelopes was maintained.*<br>• *CSA Global carried out a Mineral Resource estimate for Tungsten Mining in June 2013.*<br>• *There is a good comparison between the June 2013 estimate and the January 2015 estimate, as expected with the same methodology applied being used with addition of 115 RC and 13 Diamond exploration drillholes. No previous mining activity for tungsten has taken place in the area. The MIK estimate was completed concurrently with two check Inverse Distance Weighting (IDW) estimates. The MIK estimate used the parameters obtained from the modelled variograms. The results of the check estimates correlate well.*<br>• *No assumptions have been made regarding recovery of by-products*<br>• *No other elements were estimated*<br>• *The block model was constructed using a 20mE x 10mN x 10mRL parent block size, with subcelling to 2.5mE x 1.25mN x 1.25mRL for domain volume resolution. The parent cell size was chosen on the basis of the general morphology of mineralised bodies and in order to avoid the generation of too large block models. The subcelling size was chosen to maintain the resolution of the mineralised bodies and to provide a smooth transition of the block model into Surpac for subsequent mining studies. The subcells were optimised in the models where possible to form larger cells.*<br>• *The search radii were determined by means of the evaluation of the semivariogram parameters, which* |

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| | *determined the kriging weights to be applied to samples at specified distances. The first search radii for all lodes were selected to be equal to two thirds of the semivariogram long ranges in all directions. Model cells that did not receive a grade estimate from the first interpolation run were used in the next interpolation with greater search radii equal to full long semivariogram ranges in all directions. The model cells that did not receive grades from the first two runs were then estimated using radii incremented by the full long semivariogram ranges. When model cells were estimated using radii not exceeding the full semivariogram ranges, a restriction of at least three samples from at least two drillholes was applied to increase the reliability of the estimates.*<br>• *No selective mining units were assumed in this estimate*<br>• *No strong correlations were found between the grade variables*<br>• *The 0.025% WO3 grade envelopes were defined. Hard boundaries between the grade envelopes used to select sample populations for grade estimation.*<br>• *No grade cutting was applied, because MIK was used for the grade interpolation. The last bin defined for MIK is likely to contain occasional very high values, the estimate for this bin only is calculated using the median, which gives a more conservative value for positively skewed data than the mean.*<br>• *Validation of the block model consisted of comparison of the block model volume to the wireframe volume. Grade estimates were validated by statistical comparison with the drill* |

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| | | *data, visual comparison of grade trends in the model with the drill data trends. No reconciliation data is available at this early stage of the project.* |
| *Moisture* | • *Whether the tonnages are estimated on a dry basis or with natural moisture, and the method of determination of the moisture content.* | • The tonnages are estimated on a dry basis |
| *Cut-off parameters* | • *The basis of the adopted cut-off grade(s) or quality parameters applied.* | • Statistical analysis showed natural breaks in the WO3 grade population distribution at approximately 0.025% which formed the basis for the decision regarding determination of mineralisation envelope cut-off grade. The Mineral Resource is quoted from estimated blocks above this cut-off grade. |
| *Mining factors or assumptions* | • *Assumptions made regarding possible mining methods, minimum mining dimensions and internal (or, if applicable, external) mining dilution. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider potential mining methods, but the assumptions made regarding mining methods and parameters when estimating Mineral Resources may not always be rigorous. Where this is the case, this should be reported with an explanation of the basis of the mining assumptions made.* | • At this stage of resource development it is assumed that mining would be by open pit methods. No pit optimisation work has been carried out on the updated Mineral Resource at Kilba to determine mining methods, stripping ratios and potential pit size. |
| *Metallurgical factors or assumptions* | • *The basis for assumptions or predictions regarding metallurgical amenability. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider potential metallurgical methods, but the assumptions regarding metallurgical treatment processes and parameters made when reporting Mineral Resources may not always be rigorous. Where this is the case, this should be reported with an explanation of the basis of the metallurgical assumptions made.* | • Diagnostic metallurgical tests were carried using a composite sample from a large-diameter (PQ) drill core to characterise the Kilba ore in terms of its amenability to gravity separation, and to give a prediction of the overall tungsten recovery and grade achievable as a saleable concentrate.<br>• These tests were carried out at the metallurgical laboratory of ALS-Ammtec in Perth. The major component of the testwork was heavy liquid separation which produced a matrix of tungsten recovery results based on liquid density versus ore top size. The results show that the tungsten is present as coarse-grained scheelite and the optimum liberation size of the tungsten is around 1 - 2mm for |

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| | | an 80% tungsten recovery. The testwork to date has shown that the ore should respond well to conventional gravity separation at a production scale using well established technology including spirals and shaking tables.<br>• Further gravity separation testwork to verify the gravity response of the ore was conducted at Nagrom laboratories in Perth. The results confirmed the finding of the original testwork in that a saleable concentrate with high tungsten recovery is achievable |
| *Environmental factors or assumptions* | • *Assumptions made regarding possible waste and process residue disposal options. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider the potential environmental impacts of the mining and processing operation. While at this stage the determination of potential environmental impacts, particularly for a greenfields project, may not always be well advanced, the status of early consideration of these potential environmental impacts should be reported. Where these aspects have not been considered this should be reported with an explanation of the environmental assumptions made.* | • No detailed assumption regarding possible waste and process residue disposal options have been made at this stage.<br>• Some environmental surveys across the project area encompassing sites of potential mining activities and related infrastructure have been completed by the previous tenement holder and to date no significant issues have been identified. |
| *Bulk density* | • *Whether assumed or determined. If assumed, the basis for the assumptions. If determined, the method used, whether wet or dry, the frequency of the measurements, the nature, size and representativeness of the samples.*<br>• *The bulk density for bulk material must have been measured by methods that adequately account for void spaces (vugs, porosity, etc), moisture and differences between rock and alteration zones within the deposit.*<br>• *Discuss assumptions for bulk density estimates used in the evaluation process of the different materials.* | • Bulk density measurements were made on the core selected from 13 diamond drillholes using a method that applies the Archimedes' Principle (water displacement) by Tungsten Mining field personnel. Measurements were made on 20-30cm length samples that were collected every second metre down the hole. As the samples were competent and non-porous the following simple buoyancy method was used.<br>• During 2014, a total of 114 RC holes and 13 diamond holes were completed in the project area. All but four of these holes, which were found to be blocked were logged by Pilbara Wireline Services with a range of tools including gamma density. The obtained data was corrected to a dry bulk density |

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| | | equivalent by direct comparison with core density measurements over a statistically meaningful population of samples.<br>• While core density measurements were made on samples from all 13 diamond holes, four of these (two each from the Zone 11 and Zone 8 prospect areas) were twinned adjacent to RC holes allowing for an absolute calibration gamma density data for both diamond and RC holes to a dry core equivalent.<br>• Some porosity can be expected however the bulk density assigned is considered to be reasonable.<br>• The bulk density values were interpolated into the block model. The interpolation of the density values was similar to the interpolation of the tungsten grades, since it is believed the scheelite directly correlates with the density values. |
| *Classification* | • *The basis for the classification of the Mineral Resources into varying confidence categories.*<br>• *Whether appropriate account has been taken of all relevant factors (ie relative confidence in tonnage/grade estimations, reliability of input data, confidence in continuity of geology and metal values, quality, quantity and distribution of the data).*<br>• *Whether the result appropriately reflects the Competent Person's view of the deposit.* | • The Inferred Mineral Resource classification is based on the evidence from the available drill sampling and surface mapping. This evidence is sufficient to imply but not verify geological and grade continuity. However, the areas with the denser drilling and robust continuation of the mineralised zones were classified as Indicated Mineral Resource<br>• The Inferred and Indicated classification has taken into account all available geological and sampling information, and the classification level is considered appropriate for the current stage of this project<br>• The Mineral Resource estimate appropriately reflects the view of the Competent Person. |
| *Audits or reviews* | • *The results of any audits or reviews of Mineral Resource estimates.* | • No audits of the Mineral Resource estimate have been undertaken at this time |
| *Discussion of relative accuracy/ confidence* | • *Where appropriate a statement of the relative accuracy and confidence level in the Mineral Resource estimate using an approach or procedure deemed appropriate by the Competent Person. For example, the application of statistical or geostatistical procedures to quantify the relative accuracy of the* | • The relative accuracy of the Mineral Resource estimate is reflected in the reporting of the Mineral Resource to an Inferred and Indicated classification as per the guidelines of the 2012 JORC Code<br>• The statement refers to global estimation of tonnes and grade |

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| | *resource within stated confidence limits, or, if such an approach is not deemed appropriate, a qualitative discussion of the factors that could affect the relative accuracy and confidence of the estimate.*<br>• *The statement should specify whether it relates to global or local estimates, and, if local, state the relevant tonnages, which should be relevant to technical and economic evaluation. Documentation should include assumptions made and the procedures used.*<br>• *These statements of relative accuracy and confidence of the estimate should be compared with production data, where available.* | • No production data is available |