

## 31 MARCH 2018 QUARTERLY REPORT

### HIGHLIGHTS

- Boss completes \$8m capital raise and mandates Tribeca to arrange project finance facilities to fund Honeymoon development and restart:
  - Placement raises \$8 million (including costs)
  - Proceeds to advance a Definitive Feasibility Study (DFS) for the Honeymoon Uranium Project in South Australia, including further mineral exploration activities
  - Tribeca Investment Partners appointed to act as arranger for Project Finance Facilities of up to US\$65M
- Boss completes acquisition of 100% of the Honeymoon Uranium Project through acquisition of remaining 20% vendor interest in an equity only transaction
- Golden Hill is one of the most exciting gold projects (49% interest) in Burkina Faso, and continuing high-grade gold intercepts are increasing confidence that this project may represent Teranga's next multi-asset, mid-tier gold producer in West Africa:
  - Early-stage diamond drilling yields high-grade, near-surface oxide gold mineralization and deeper gold intersections
  - Close proximity of targets and prospects lends itself to a central mill/multi-deposit operation, all located approximately 5 kilometres from a central point
  - Joint Venture expects to issue an initial resource by the end of 2018

**Boss Resources Limited (ASX: BOE)** ("**Boss**" or the "**Company**") has one of a few uranium projects ready to participate in the early stages of a new bull market; it truly is a product for this time. Uniquely positioned, the Company's Honeymoon Uranium Project ("**Honeymoon**") was technically de-risked during the previous quarter, demonstrated by the significant success in our field leach trials which surpassed expectations.

Having optimised field operational knowhow and application of improved leaching chemistry and uranium recovery on Honeymoon, Boss during the current quarter then acquired the remaining 20% interest in the Honeymoon Uranium Project. Consolidation of the holding structure enabled Boss to move ahead with project finance discussions for Honeymoon, which culminated in the appointment of Tribeca Investment Partners ("**Tribeca**") to arrange Project Finance Facilities of up to US\$65m to assist in funding the development and restart of operations.

As the uranium industry awaits strengthening of prices, Boss is proactively advancing the DFS and positioning the Honeymoon Project to be Australia's next producer. Counter-acting low uranium prices, Boss also has an effective hedged strategy via a significant interest in a developing gold resource on the Golden Hill property held in Burkina Faso, subject to an Earn-in Agreement with Teranga Gold Corporation in which Boss is free carried until end of a DFS. Golden Hill is shaping up to be the next mid-tier gold producer in West Africa in one of the most prospective gold belts in the world.

## Honeymoon Uranium Project



Fully Permitted with Export License of 3.3M lb pa  
Resource 63.3M lb U<sub>3</sub>O<sub>8</sub> JORC  
Significant exploration target 100M lb U<sub>3</sub>O<sub>8</sub>  
Existing plant of \$170M  
AISC of < US\$24 /lb  
Team is highly skilled, experienced and successful

### Successful A\$8M Capital Raise and Debt Mandate up to US\$65M

On 26 March 2018, Boss announced the successful completion of a placement to raise \$8m (including issue costs). Boss will use funds from the placement to advance a Definitive Feasibility Study (DFS) at the Company's Honeymoon Uranium Project in South Australia, fund further mineral exploration activities and for general working capital.

Boss was also pleased to announce the appointment of Tribeca Investment Partners to arrange Project Finance Facilities of up to US\$65m to assist in funding the development and restart of Honeymoon. Tribeca's appointment is subject to Tribeca undertaking due diligence on the Company and Honeymoon, obtaining investment committee approval and the parties agreeing Project Finance Facilities' terms (which are to be on market standard terms for similar projects). As part of the mandate, Tribeca has a right to participate in future debt or equity transactions for 6 months after the term of the mandate. The other terms of the mandate are market standard.

Full details of the capital raise and debt mandate are contained in the ASX announcement of 26 March 2018.

### Increase of Ownership to 100%

On 7 December 2017, the Company announced it had entered into a binding conditional agreement to acquire 100% of the shares in Wattle Mining Pty Ltd and consolidate Boss' ownership of the Honeymoon Uranium Project. On 28 February 2018, the acquisition was approved by shareholders at the Company's general meeting.

On 19 March 2018, the Company announced that it had completed the acquisition of the remaining 20% interest in its Honeymoon Uranium Project, South Australia and now owned 100% of the mining lease 6109, exploration leases 5621, 5215, 5263, 5622, 6020 and retention lease 83-90.

The Company's 100% consolidation of the holding structure for the Honeymoon Uranium Project completes the strategy for providing Boss with flexibility and significantly enhanced economic interest in Honeymoon. Prior to the acquisition, Wattle Mining's 20% interest in Honeymoon had been free carried until the completion of a positive Bankable Feasibility Study. In addition to the greater economic interest, consolidation of the holding structure is expected to provide considerable structural benefits when negotiating offtake agreements and has effectively culminated in the appointment of Tribeca Investment Partners to arrange Project Finance Facilities of up to US\$65m to assist in funding the development and restart of operations.

Full details of the acquisition are contained in the notice of meeting lodged with the ASX on 25 January 2018.

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## Uranium Market Overview

Uranium market fundamentals have also improved in the past six months. The supply side has shown considerable discipline and major producers Cameco, Orano and Kazatomprom have made significant cuts to planned production to realign supply with demand. The recent announcement by US Energy Secretary Rick Perry that he will suspend the Energy Department's practice of selling excess uranium for the rest of the fiscal year, and may be open to continuing this suspension into the following fiscal year, will reduce secondary supply available to the market. In the past weeks, a draft bill was submitted to the Russian lower house of parliament, which could ban all trade between state-owned nuclear company Rosatom and US nuclear power companies. This bill, if passed and depending on how it is implemented, could have a significant impact on the global uranium market as US utilities import significant quantities of Russian uranium.

There have also been significant developments which will impact uranium demand; Japan, which has a pivotal role to play in the recovery of the uranium market, now has 6 reactors in operation, a further 3 expected to start

operation by mid- 2018 and, most recently, two court cases aimed at impeding the redeployment of nuclear stations have ruled in favour of nuclear power. China's National Energy Administration (NEA) has recently released a plan calling for five new nuclear power reactors to be brought online in 2018 and construction to be started on a further six to eight units. India has moved closer to an agreement with EDF to build six new reactors in Jaitapur and Saudi Arabia is evaluating bids from international vendors to build the kingdom's first two nuclear reactors.

## Burkina Faso Gold Assets

Boss currently holds a 49% interest in joint venture with Teranga over the Golden Hill and Gourma Gold Projects located in Burkina Faso, West Africa. Teranga manages the joint venture and is funding all exploration on the projects up to the completion of a DFS and Decision to Mine. On delivery of the DFS, Teranga's interest in the joint venture will increase to 70% and they retain the rights to acquire an additional 10% in the joint venture for A\$2.5 million. Upon completion of the DFS but prior to a Decision to Mine, Boss may elect to convert the remainder of their interest to a 1.5% Net Smelter Return, otherwise Boss shall be free carried to a decision to mine and will then be required to contribute on a pro rata basis.

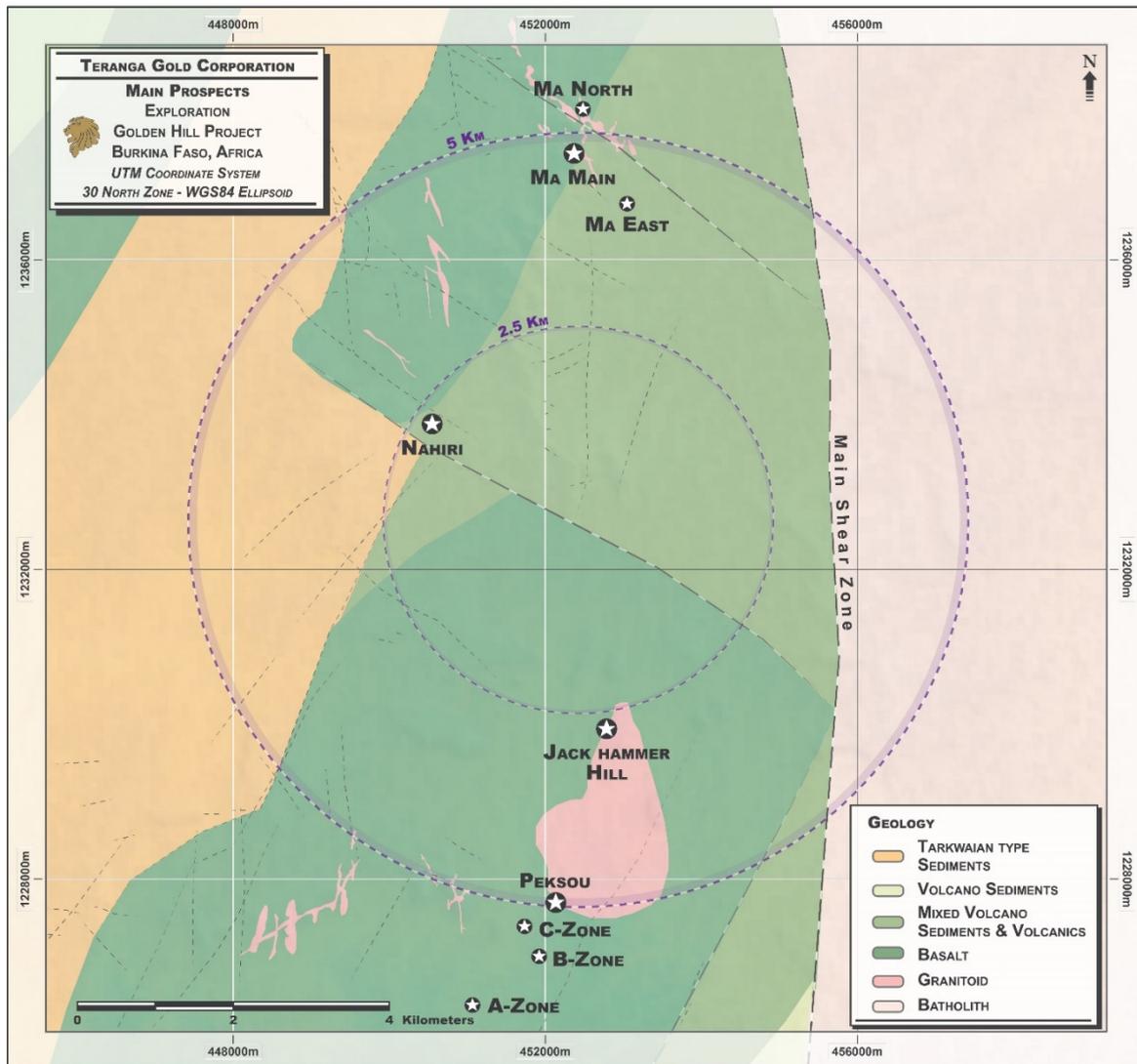
During the March quarter, Boss made several announcements confirming the developing significant gold resource at Golden Hill, and importantly the trend of near surface and deeper high-grade intersections continues. Confirmation is further complemented by Teranga's exploration approach of diamond drilling with very close spaced drilling patterns. The solid results combined with a renewed interest in the West African gold sector has resulted in the Company being approached regarding the potential divestment of its interest in the joint venture.

Teranga has been fast tracking the assessment of the commercial potential of the Golden Hill Gold Project, and \$8 million has been budgeted for drill programs in 2018. Teranga plans to release an initial resource for the project's most advanced prospects by year end. Preliminary metallurgical test work programs are underway and base line environmental studies are planned for later this year. Teranga has secured \$25 million for future advancement of its Golden Hill project to feasibility study. Boss is a direct beneficiary of this spend.

## Golden Hill Property

The Golden Hill property is comprised of three adjacent exploration permits covering 470 km<sup>2</sup> located in southwest Burkina Faso in the central part of the Houndé Greenstone Belt. This belt hosts a number of high-grade gold discoveries, including the Siou, Yaramoko and Houndé deposits, the latter being contiguous with Golden Hill. To the south of Golden Hill is another large land position where active exploration programs are well underway.

The close proximity of these targets and prospects lends itself to a central mill/multi-deposit operation and all are located approximately 5 kilometres from a central point. It is also important to note the Project is within trucking distance of the new Endeavour Mining Corporation processing plant.



*Figure 1: Golden Hill Property – Prospect Location Plan Map*

Key exploration results as ASX announced during the quarter ended 31 March 2018:

**Continued Ma Prospect (Ma Main / East / North) Highlights (released 5 February 2018):**

- **7 m @ 5.78 g/t Au** from 14m DHD and 6 m @ 2.35 g/t Au (GHDD-095)
- **13 m @ 2.35 g/t Au** from 102m DHD including 4 m @ 4.83 g/t Au (GHDD-139)
- **11 m @ 2.13 g/t Au** from 20m DHD (GHDD-120)

**Continued Ma Prospect (Ma North Portion) Highlights (released 23 March 2018):**

- **5m @ 3.80 g/t Au** (GHDD-256)
- **5m @ 6.46 g/t Au** including 1m @ 17.34 g/t Au (GHDD-256)
- **6m @ 6.39 g/t Au** including 1m @ 20.30 g/t Au (GHDD-260)

#### Continued Peksou Prospect Highlights (released 5 February 2018):

- **17 m @ 2.17 g/t Au** from 86m DHD including 5 m @ 4.05 g/t Au (GHDD-207)
- **4 m @ 7.21 g/t Au** from 78m DHD including 1 m @ 27.41 g/t Au (GHDD-209)
- **28 m @ 1.28 g/t Au** from 54m DHD including 4 m @ 2.32 g/t Au (GHDD-211)

#### Continued Peksou Prospect Highlights (released 23 March 2018):

- **11m @ 6.78 g/t Au** including 2m @ 27.01 g/t Au (GHDD-230)
- **16m @ 2.23 g/t Au** including 2m @ 7.69 g/t Au (GHDD-234)
- **14m @ 2.84 g/t Au** including 4m @ 4.31 g/t Au (GHDD-237)
- **27m @ 2.09 g/t Au** including 4m @ 8.31 g/t Au including 1m @ 26.37g/t Au (GHDD-241)

#### Continued Jackhammer Hill Prospect Highlights (released 28 February 2018):

- **9 m @ 34.25 g/t Au** including 1 m @ 294.4 g/t Au (GHDD-221) – uncut
- **8 m @ 10.49 g/t Au** including 1 m @ 71.93 g/t Au (GHDD-222) – uncut
- **8 m @ 4.36 g/t Au** including 1 m @ 10.19 g/t Au (GHDD-197)
- **12 m @ 2.68 g/t Au** including 4 m @ 5.83 g/t Au (GHDD-225)

#### Jackhammer Hill – Prior Selected Drill Highlights (released 17 November 2017):

- **15 m @ 5.72 g/t Au** including 4 m @ 16.37 g/t Au including 1 m @ 42.1 g/t Au (GHDD-104) – uncut
- **14 m @ 110.6 g/t Au** including 5 m @ 306.7 g/t Au including 1 m @ 1,499 g/t Au (GHDD-111) -uncut

#### C-Zone Prospect - Initial drilling Highlights (released 5 February 2018):

- **11 m @ 4.87 g/t Au** from 52m downhole depth (DHD) incl. 2 m @ 11.32 g/t Au (GHDD-189)
- **6 m @ 4.64 g/t Au** from 52m DHD including 2 m @ 10.77 g/t Au (GHDD-188)
- **8 m @ 3.76 g/t Au** from 61m DHD including 1 m @ 19.74 g/t Au (GHDD-191)

#### Continued C-Zone Prospect Highlights (released 17 April 2018):

- **7 m @ 21.86 g/t Au** including 1 m @ 136.01 g/t gold (GHDD-290) uncut grade from 26 m downhole depth (DHD);
- **10 m @ 6.03 g/t Au** including 1 m @ 23.85 g/t gold (GHDD-247) from 91 m DHD;
- **12 m @ 3.91 g/t Au** including 5 m @ 6.66 g/t gold (GHDD-245) from 84 m DHD; and
- **8 m @ 3.64 g/t Au** (GHDD-272) from 35 m DHD.

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## Appendix 1

The following information is provided pursuant to Listing Rule 5.3.3 for the quarter ended 31 March 2018.

### SCHEDULE OF MINING TENEMENTS

Tenement Name	Location	Licence Number	Interest
Boutouanou	Burkina Faso	2011/11/410	49% (TGZ farming in)
Diabatou	Burkina Faso	2011/11/409	49% (TGZ farming in)
Tyara	Burkina Faso	2011/11-159	49% (TGZ farming in)
Foutouri	Burkina Faso	2011/11-160	49% (TGZ farming in)
Baniri	Burkina Faso	2009/09-060	49% (TGZ farming in)
Intiedougou	Burkina Faso	2009/09-061	49% (TGZ farming in)
Mougue	Burkina Faso	2009/09-062	49% (TGZ farming in)
Kankandi	Burkina Faso	10/142/MCE	49% (TGZ farming in)
Tyabo	Burkina Faso	10/144/MCE	49% (TGZ farming in)
Skogtrask Project	Sweden	Skogtrask nr.3	100%
		Palange nr.1	100%
Lilltrask Project	Sweden	Lilltrask nr1, 2 and 3	100%
Yarramba	South Australia	EL5621	80% (Right to acquire 100%)
South Eagle	South Australia	EL6081 (previously EL5215)	80% (Right to acquire 100%)
Goulds Dam	South Australia	EL5623	80% (Right to acquire 100%)
Katchiwilleroo	South Australia	EL5622	80% (Right to acquire 100%)
Ethiudna	South Australia	EL6020	80% (Right to acquire 100%)
Goulds Dam	South Australia	RL83-90	80% (Right to acquire 100%)
Honeymoon Mine	South Australia	ML6109	80% (Right to acquire 100%)

There were no acquisitions or disposals during the quarter.

### COMPETENT PERSON'S STATEMENT

The information in this document that relates to Exploration Results in respect of the Company's assets in Burkina Faso were first reported by the Company in announcements released to ASX on 17 November 2017, 5 February 2018, 28 February 2018, 23 March 2018 and 17 April 2018. The Company confirms that it is not aware of any new information or data that materially affects these Exploration Results.