

**Directors:**

**Chairman**  
David Lenigas

**Directors**  
Trevor Tennant  
Keith Coughlan

**Company Secretary:**  
Jessamyn Lyons

**Issued Capital:**  
78,136,137

**Corporate Information:**  
**ASX Code:** SUH



**Quarterly Activities Report to 30 September 2017  
and Significant Activity Post Reporting Period**

**HIGHLIGHTS:**

- **The Company has established a significant land holding in the highly prospective Pilbara Basin:**
  - In September, the Company announced applications over 722km<sup>2</sup> of prospective conglomerate gold tenements near Paraburdoo in the West Pilbara.
  - This was increased to a total of 1,504 km<sup>2</sup> of prospective tenements in October with the addition of two exploration licenses near Newman in the West Pilbara.

David Lenigas, Southern Hemisphere Mining's Chairman, commented;

"The board of Southern Hemisphere Mining ("SUH" or the "Company") is still working tirelessly to materialise significant shareholder value from our Chilean copper assets, but we have now entered the Australian gold sector through the application of a significant tenement package in the southern boundaries of the Pilbara Basin. We see this as an extremely interesting area to be focusing on right now for its conglomerate gold potential and we have already commenced exploration efforts on the ground."

**Projects:**

**Tom Price – Paraburdoo Gold Project, Pilbara Basin, Western Australia:**

During the Period, the Company announced on the 27 September 2017 that it has applied for two Exploration Licences, E47/3807 (45 Blocks, 142 km<sup>2</sup>) and E47/3808 (184 Blocks, 580 km<sup>2</sup>), covering a total area of 722 km<sup>2</sup> located 260km south of Karratha and surrounding Paraburdoo in the West Pilbara, Western Australia (Figure 1). The new tenement applications have no competing tenement applications and the company expects that the grant of the tenements will occur in a timely fashion.

The two Exploration Licence applications are prospective for conglomerate gold mineralisation associated with the Mt Roe Basalt and the Lower Fortescue Group on the southern boundary of the Fortescue Basin (Figure 2). The geological setting is analogous in a basinal context to the Artemis Resources owned Purdy's Reward Project located on the northern boundary of the Fortescue Basin.

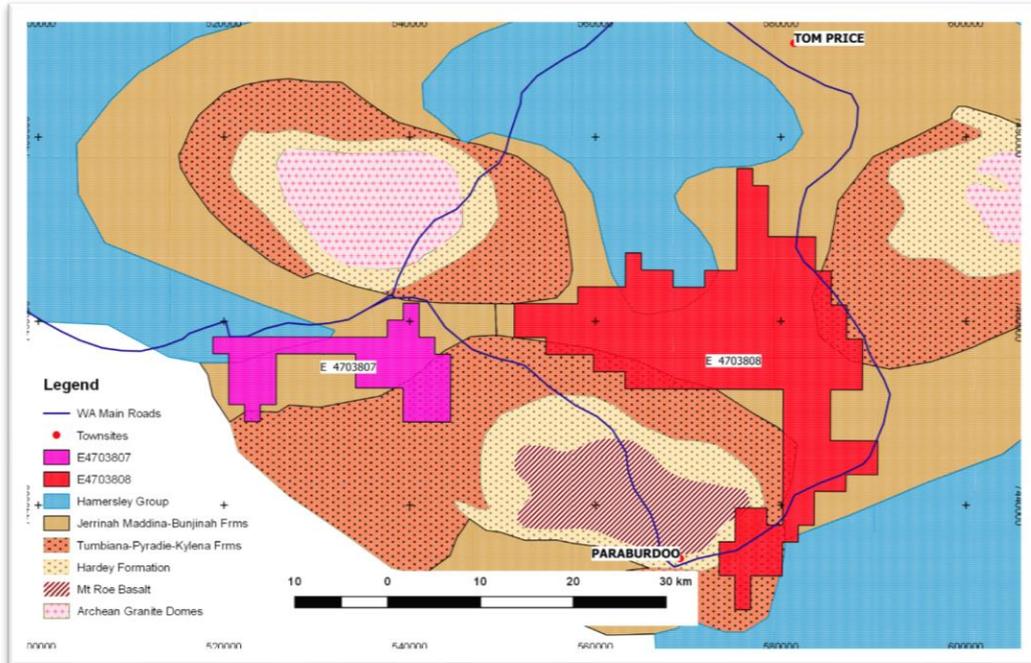
Approximately 260km south of Karratha, Geological Survey of Western Australia (GSWA) mapping (Figures 1 and 3) shows the presence of the Mt Roe Basalt within Lower Fortescue Group sediments in the core of 2 anticlinal domes near Paraburdoo; the Rocklea (45 km northwest of Paraburdoo) and Paraburdoo (at Paraburdoo) Domes.

The Rocklea Dome has numerous gold occurrences (Figure 3) associated with these sediments. The Milli Milli Dome 20 km to the northeast of SUH's E47/3808 has gold occurrences in Archean sediments. These Archean sediments are not assigned, and the identification of Artemis's Purdy's

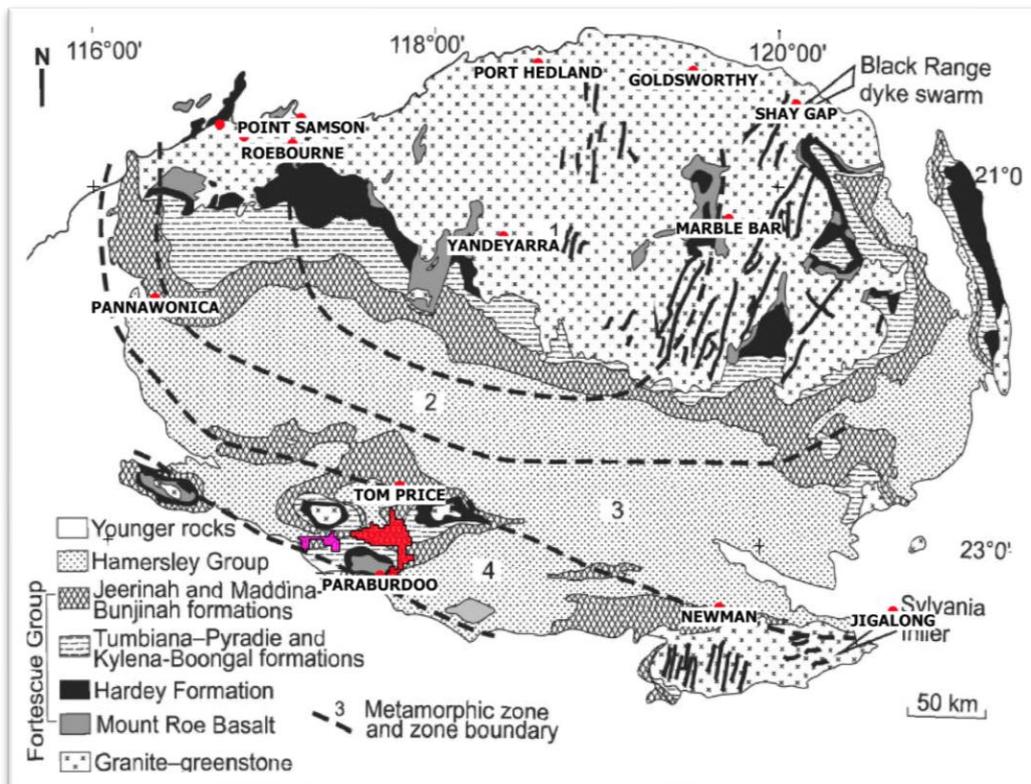
Reward gold project makes the Paraburdoo Project area of extreme interest for sedimentary gold deposition.

The Paraburdoo dome immediately north of Paraburdoo has Mt Roe Basalt and the basal sediments covered by tenements held by Bascome Pty Ltd (Creasy Group) and Grants Hill Gold Pty Ltd (Novo Resources Corp).

**Figure 1: Location of Exploration tenement applications near Paraburdoo with generalised geology.**

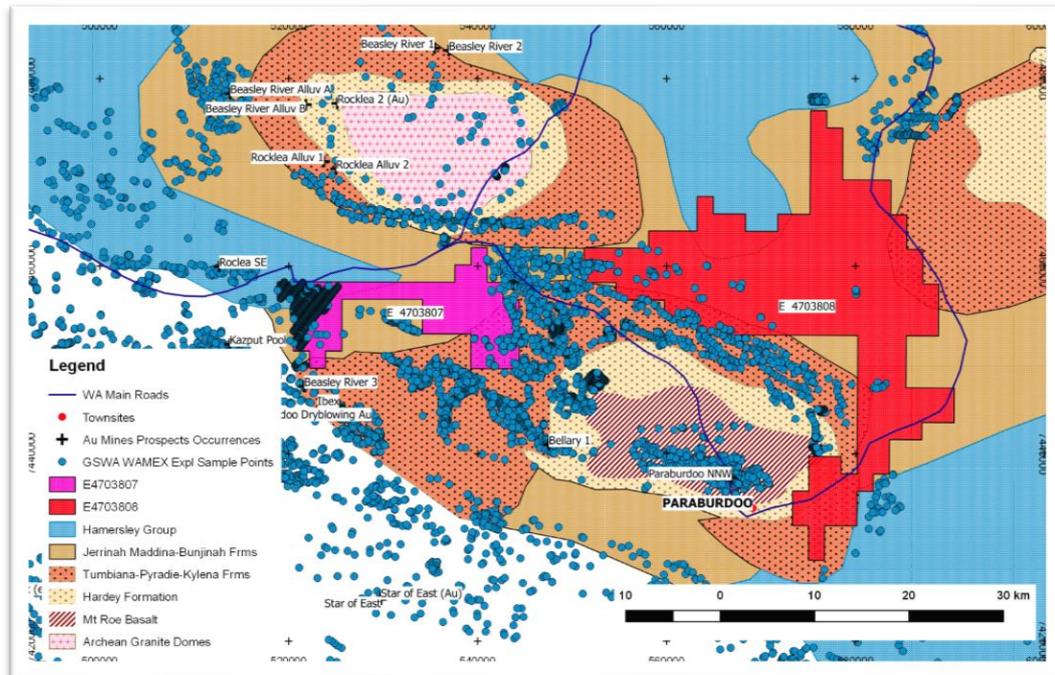


**Figure 2: SUH Tenement applications overlaid on Regional Map from Large Igneous Provinces: Chapter 6 Archean LIP: R. Ernest 2014. (Cambridge University Press). The tenements are on the southern margin of the Fortescue Basin within geology mapped as analogous to Purdy's Reward.**



The Department of Mines, Industry, Regulation and Safety (DMIRS) has released extensive historical sampling data as shown in Figure 3. The extensive sampling data set and other remote sensing and historical exploration data will be further investigated, interrogated and validated. The results of this work will be used to plan further exploration.

**Figure 3: Exploration tenement application E47/3807 (Magenta) and E47/3808 (Red) with open file geochemistry sampling locations and gold mines and prospects. Source DMIRS.**



### Newman Gold Project, Pilbara Basin, Western Australia:

Post reporting Period, the Company announced on the 12 October 2017 that it has applied for two Exploration Licences, E52/3579 (82 Blocks, 257km<sup>2</sup>) and E52/3580 (167 Blocks, 525km<sup>2</sup>), covering a total area of 782km<sup>2</sup> located 400km southeast of Karratha and immediately south of Newman in the Pilbara, Western Australia (Figure 4 and 5). The new tenement applications have no competing tenement applications and the company expects that the grant of the tenements will occur in a timely fashion.

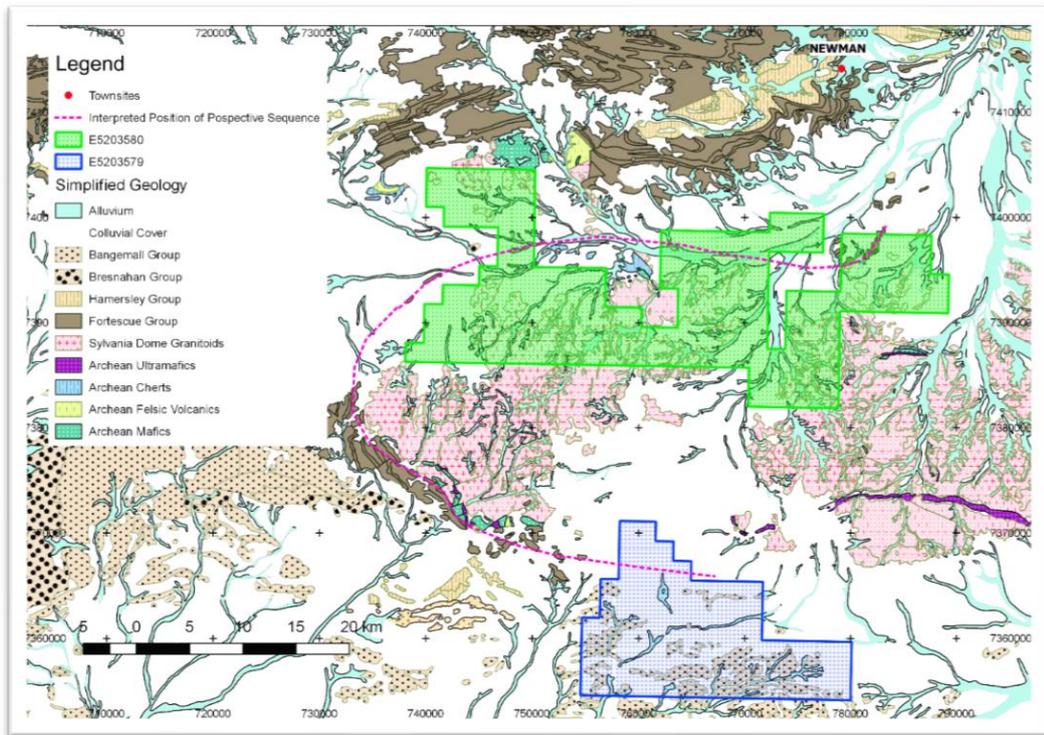
This new Exploration Licence applications combined with the 722km<sup>2</sup> the Company has recently applied for near Paraburdoo brings SUH's total tenements in the area to 1504km<sup>2</sup>.

The two Exploration Licence applications are prospective for conglomerate gold mineralisation associated with the Lower Fortescue Group on the southern boundary of the Fortescue Basin. The geological setting is considered analogous in a basinal context to the Artemis Resources owned Purdy's Reward Project located on the northern boundary of the Fortescue Basin.

Approximately 400km southeast of Karratha, Geological Survey of Western Australia (GSWA) mapping shows the presence of Lower Fortescue Group sediments along the margin of the Hamersley Basin north of the Archean Sylvania Dome and arcing around the Sylvania dome to the south.

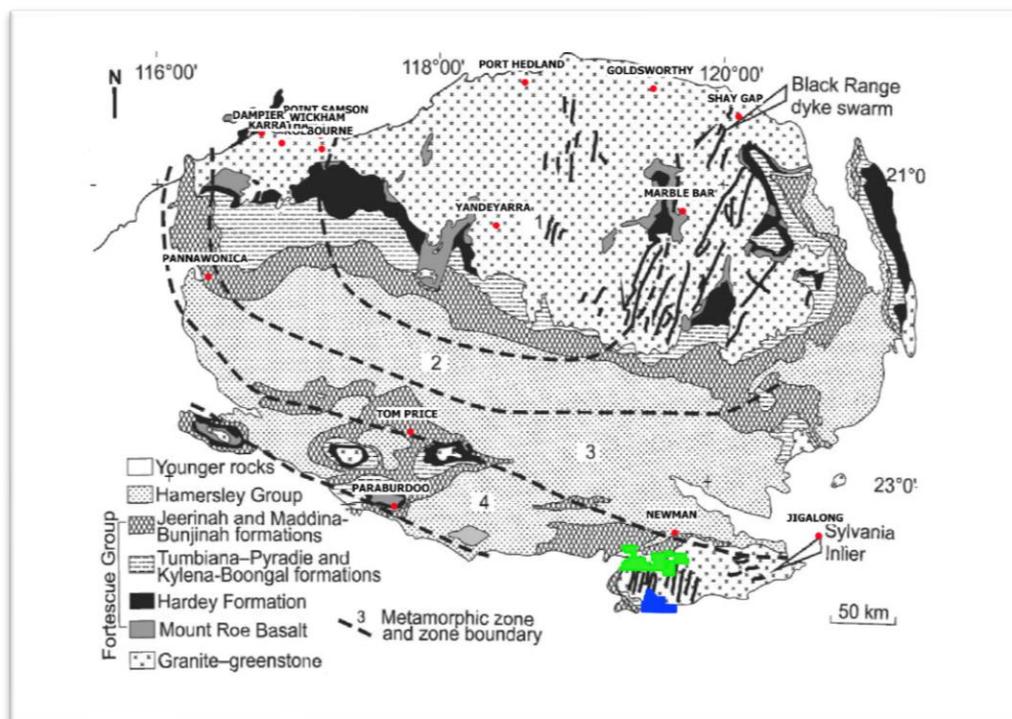
The Sylvania Dome has numerous gold occurrences (Figure 3) associated around its margins mostly in the Jimblebar Archean Inlier To the east. More significant is the Deadman Flat dry blowing and metal detecting area on the southwest side of the Sylvania Dome. Located in the headwaters of "Goldfields Creek" the area is within extensive colluvium but correlates with Lower Fortescue Group sediments.

**Figure 4: Location of Exploration tenement applications near Newman with known gold occurrences and generalized geology.**

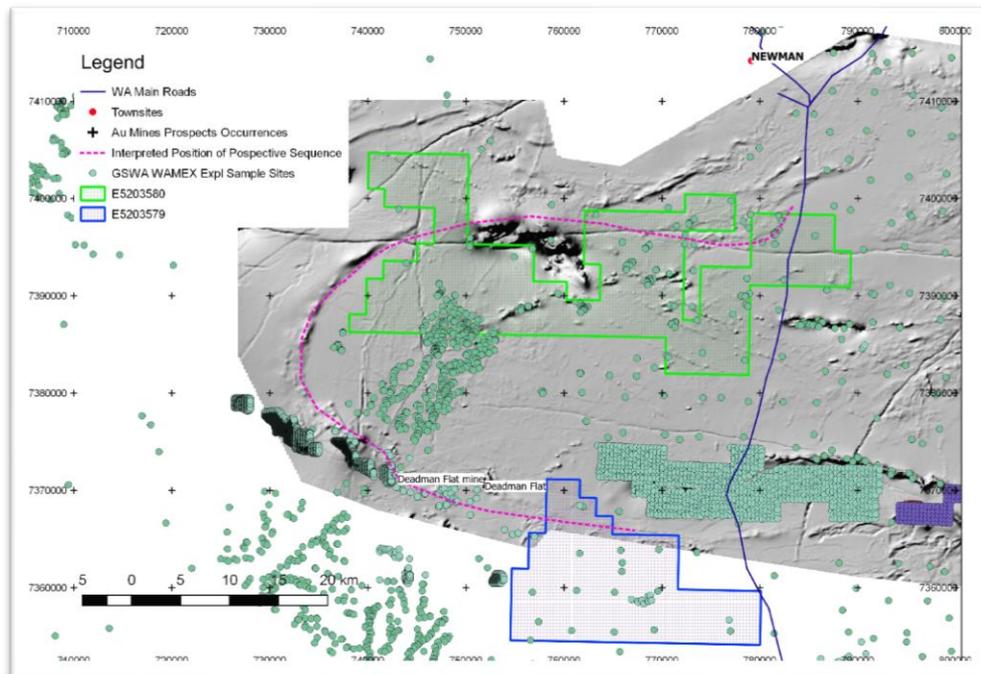


The Department of Mines, Industry, Regulation and Safety (DMIRS) has released historical sampling data as shown in Figure 6. The extensive sampling data set and other remote sensing and historical exploration data will be further investigated, interrogated and validated. The results of this work will be used to plan further exploration.

**Figure 5: SUH Tenement applications overlaid on Regional Map from Large Igneous Provinces: Chapter 6 Archean LIP: R. Ernest 2014. (Cambridge University Press). The tenements are on the southern margin of the Fortescue Basin within geology mapped as analogous to Purdy’s Reward.**



**Figure 6: Exploration tenement application E52/3579 (Blue) and E52/3580 (Green) with open file geochemistry sampling locations on grey scale regional magnetic data.**



**Corporate:**

- The Company welcomed a new Company Secretary, Ms Jessamyn Lyons, to the team and thanked Ms Julia Beckett for her contribution.

**General:**

- The Company continues to work on identifying new and exciting exploration or production opportunities in Australia and elsewhere, whilst also seeking to realise short-term value for shareholders via existing assets.

**BACKGROUND INFORMATION ON SOUTHERN HEMISPHERE MINING:**

Southern Hemisphere Mining Limited (ASX Code "SUH") is an experienced copper-gold explorer and developer. The Company has until recently been primarily focused in Chile, the world's leading copper producing country and one of the most prospective regions of the world for major new copper discoveries. In Chile, the primary areas of focus are on the Llahuin Porphyry Copper-Gold Project where the Company has drilled up a significant Copper Gold resource, and the Los Pumas Manganese Project. The Company is now beginning exploration on its new focus in the highly gold prospective areas of the southern Pilbara Basin in Western Australia.

**CONTACTS:**

For further information on this update or the Company generally, please visit our website at [www.shmining.com.au](http://www.shmining.com.au) or contact:

**Investors / Shareholders**

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 Email: keith@europeanmet.com

Jessamyn Lyons  
 Company Secretary  
 Telephone: +61 (0) 414 599 311  
 Email: jess@everestcorp.com.au

**COMPETENT PERSON / QUALIFIED PERSON STATEMENT:**

The information in this report that relates to copper and gold Exploration Results for the Company's Projects is based on information compiled by Mr Trevor Tennant, who is a Fellow of The Australasian Institute of Mining and Metallurgy. Mr Tennant has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration, and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr Tennant is a full-time employee and Managing Director of the Company and consents to the inclusion in the report of the matters based on his information in the form and context in which it appears. For further information, please refer to the Technical Reports and News Releases on the Company's website at [www.shmining.com.au](http://www.shmining.com.au).

**FORWARD LOOKING STATEMENTS AND IMPORTANT NOTICE:**

This announcement may contain forward looking statements that are subject to risk factors associated with the oil and gas industry. It is believed that the expectations reflected in these statements are reasonable, but they may be affected by many variables which could cause actual results or trends to differ materially.

**Investors should make and rely upon their own enquiries before deciding to acquire or deal in the Company's securities.**

This announcement may contain forecasts, projections and forward-looking information. Although the Company believes that its expectations, estimates and forecast outcomes are based on reasonable assumptions it can give no assurance that these will be achieved. Expectations, estimates and projections and information provided by the Company are not a guarantee of future performance and involve unknown risks and uncertainties, many of which are out of the Company's control. Actual results and developments may differ materially from those expressed or implied. To the maximum extent permitted by applicable laws, the Company makes no representation and can give no assurance, guarantee or warranty, express or implied, as to, and takes no responsibility and assumes no liability for (1) the authenticity, validity, accuracy, suitability or completeness of, or any errors in or omission from, any information, statement or opinion contained in this announcement and (2) without prejudice to the generality of the foregoing, the achievement or accuracy of any forecasts, projections or other forward looking information contained or referred to in this announcement.

# Appendix 5B

## Mining exploration entity and oil and gas exploration entity quarterly report

Introduced 01/07/96 Origin Appendix 8 Amended 01/07/97, 01/07/98, 30/09/01, 01/06/10, 17/12/10, 01/05/13, 01/09/16

Name of entity

**SOUTHERN HEMISPHERE MINING LIMITED (ASX: SUH)**

ABN

**17 140 494 784**

Quarter ended (Current quarter)

**30 September 2017**

### Consolidated statement of cash flows

	Current quarter \$A'000	Year to date (3 Months) \$A'000
<b>1. Cash flows from operating activities</b>		
1.1 Receipts from customers	-	-
1.2 Payments for:	-	-
(a) exploration and evaluation	(44)	(44)
(b) development	-	-
(c) production	-	-
(d) staff costs	(18)	(18)
(e) administration and corporate costs	(62)	(62)
1.3 Dividends received (see note 3)	-	-
1.4 Interest received	1	1
1.5 Interest and other costs of finance paid	-	-
1.6 Income taxes paid	-	-
1.7 Research and development refunds	-	-
1.8 Other (provide details if material)	-	-
<b>1.9 Net cash from / (used in) operating activities</b>	<b>(123)</b>	<b>(123)</b>
<b>2. Cash flows from investing activities</b>		
2.1 Payments to acquire:	-	-
(a) property, plant and equipment	-	-
(b) tenements (see item 10)	-	-
(c) investments	-	-
(d) other non-current assets	-	-
2.2 Proceeds from disposal of:	-	-
(a) property, plant and equipment	-	-
(b) tenements (see item 10)	-	-
(c) investments	-	-
(d) other non-current assets	-	-
2.3 Cash flows from loans to other entities	-	-
2.4 Dividends received (see note 3)	-	-
2.5 Other (provide details if material)	-	-
<b>2.6 Net cash from / (used in) investing activities</b>	<b>-</b>	<b>-</b>

<sup>(1)</sup> Excludes amounts incurred and accrued in respect to exploration activities as at 30 June 2017, paid in July 2017, refer also 9.1.

<b>Consolidated statement of cash flows</b>	<b>Current quarter \$A'000</b>	<b>Year to date (3 Months) \$A'000</b>
<b>3. Cash flows from financing activities</b>		
3.1 Proceeds from issues of shares	-	-
3.2 Proceeds from issue of convertible notes	-	-
3.3 Proceeds from exercise of share options	-	-
3.4 Transaction costs related to issues of shares, convertible notes or options	-	-
3.5 Proceeds from borrowings	-	-
3.6 Repayment of borrowings	-	-
3.7 Transaction costs related to loans and borrowings	-	-
3.8 Dividends paid	-	-
3.9 Other (provide details if material)	-	-
<b>3.10 Net cash from / (used in) financing activities</b>	-	-
<b>4. Net increase / (decrease) in cash and cash equivalents for the period</b>		
4.1 Cash and cash equivalents at beginning of quarter/year to date	702	702
4.2 Net cash from / (used in) operating activities (item 1.9 above)	(123)	(123)
4.3 Net cash from / (used in) investing activities (item 2.6 above)	-	-
4.4 Net cash from / (used in) financing activities (item 3.10 above)	-	-
4.5 Effect of movement in exchange rates on cash held	-	-
<b>4.6 Cash and cash equivalents at end of quarter</b>	579	579
<b>5. Reconciliation of cash and cash equivalents</b> at the end of the quarter (as shown in the consolidated statement of cash flows) to the related items in the accounts	<b>Current quarter \$A'000</b>	<b>Previous quarter \$A'000</b>
5.1 Bank balances	579	702
5.2 Call deposits	-	-
5.3 Bank overdrafts	-	-
5.4 Other (provide details)	-	-
<b>5.5 Cash and cash equivalents at end of quarter</b> (should equal item 4.6 above)	579	702
<b>6. Payments to directors of the entity and their associates</b>		<b>Current quarter \$A'000</b>
6.1 Aggregate amount of payments to these parties included in item 1.2		18
6.2 Aggregate amount of cash flow from loans to these parties included in item 2.3		-
6.3 Include below any explanation necessary to understand the transactions included in items 6.1 and 6.2	Nil.	
<b>7. Payments to related entities of the entity and their associates</b>		<b>Current quarter \$A'000</b>
7.1 Aggregate amount of payments to these parties included in item 1.2		-
7.2 Aggregate amount of cash flow from loans to these parties included in item 2.3		-
7.3 Include below any explanation necessary to understand the transactions included in items 7.1 and 7.2	Nil.	

<b>8. Financing facilities available</b> Add notes as necessary for an understanding of the position	<b>Total facility amount at quarter end \$A'000</b>	<b>Amount drawn at quarter end \$A'000</b>
	-	-
	-	-
	-	-
8.1 Loan facilities		
8.2 Credit standby arrangements		
8.3 Other (please specify)		
8.4 Include below a description of each facility above, including the lender, interest rate and whether it is secured or unsecured. If any additional facilities have been entered into or are proposed to be entered into after quarter end, include details of those facilities as well.		

Nil

<b>9. Estimated cash outflows for next quarter</b>	<b>\$A'000</b>
9.1 Exploration and evaluation <sup>(2)</sup>	30
9.2 Development	-
9.3 Production	-
9.4 Staff costs	18
9.5 Administration and corporate costs	28
9.6 Other (provide details if material)	-
<b>9.7 Total estimated cash outflows</b>	<b>76</b>

<sup>(2)</sup> This includes amounts incurred and accrued in respect to exploration activities as at 30 June 2017, paid in July 2017.

<b>10. Changes in tenements</b> (items 2.1(b) and 2.2(b) above)	<b>Tenement reference and location</b>	<b>Nature of interest</b>	<b>Interest at beginning of quarter %</b>	<b>Interest at end of quarter %</b>
10.1 Interests in mining tenements and petroleum tenements lapsed, relinquished or reduced	Nil			
10.2 Interests in mining tenements and petroleum tenements acquired or increased	Nil			

## Compliance statement

- This statement has been prepared in accordance with accounting standards and policies which comply with Listing Rule 19.11A.
- This statement gives a true and fair view of the matters disclosed.



Signed:

Dated: Tuesday, 31 October 2017

Company Secretary

Print name: Jessamyn Lyons

## Notes

- The quarterly report provides a basis for informing the market how the entity's activities have been financed for the past quarter and the effect on its cash position. An entity that wishes to disclose additional information is encouraged to do so, in a note or notes included in or attached to this report.

2. If this quarterly report has been prepared in accordance with Australian Accounting Standards, the definitions in, and provisions of, AASB 107: Statement of Cash Flows apply to this report. If this quarterly report has been prepared in accordance with other accounting standards agreed by ASX pursuant to Listing Rule 19.11A, the corresponding equivalent standard applies to this report.
3. Dividends received may be classified either as cash flows from operating activities or cash flows from investing activities, depending on the accounting policy of the entity.