



QUARTERLY ACTIVITIES REPORT

Ending 31 December 2019



KEY POINTS:

Operational

- Completion of geophysical program at Maslins iron oxide copper gold (“IOCG”) exploration project under OZ Minerals’ earn-in
- Results from this field program provided further definition of the 6km Maslins anomaly
- Design of Maslins diamond drill program confirmed with OZ Minerals
- Maslins diamond drilling commenced in January 2020, 350m drilled to date.

Corporate

- Finalisation of \$0.36 million Share Purchase Plan (“SPP”) in October 2019
- Appointment of Mr Andrew McIlwain as the company’s Managing Director
- Mr Dave Ransom stepped down as Chairman, with Mr Kevin Wilson assuming the role of Chairman
- Cash balance of \$4.15 million at 31 December 2019

Maslins Iron Oxide Copper Gold Project

The Maslins iron oxide copper gold (“IOCG”) project is 100%-owned by Investigator and located in the Olympic Dam Domain of the Stuart Shelf in the Gawler Craton, South Australia (Figure 1 below).

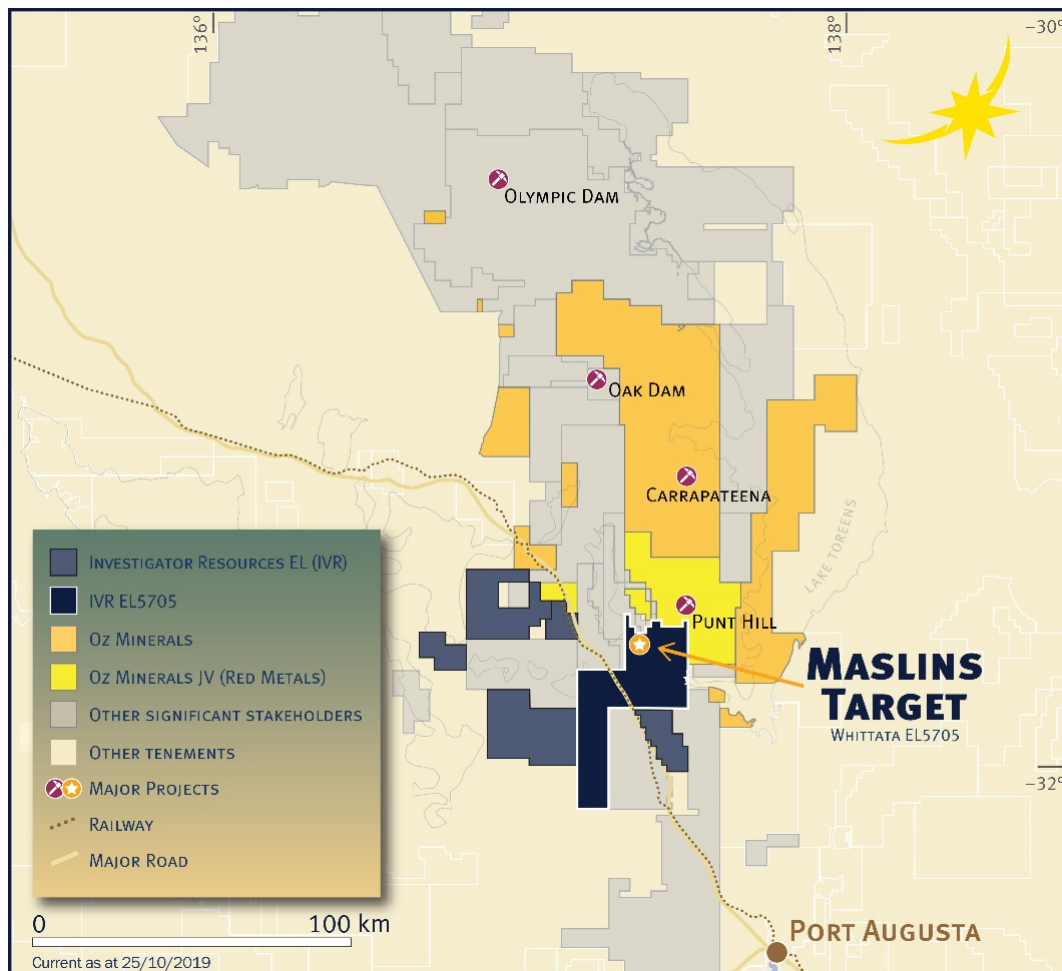


Figure 1: Investigator’s tenements and the Maslins IOCG target along with OZ Minerals’ interests, including their Carrapateena Project, in the Stuart Shelf, South Australia

On 3 October 2019, Investigator announced completion of the first field activity conducted under the OZ Minerals Earn-In Joint Venture at the Maslins IOCG Project.

This geophysical program comprised an additional 233 gravity and 58 Magneto-Telluric (“MT”) stations. The newly acquired data “tied-in” and added to the historical dataset. Interpretation was completed by geophysical consulting experts, in conjunction with Investigator’s team and OZ Minerals’ staff.

Investigator announced to the ASX on 19 November 2019 that the interpreted data gathered from the program had provided further refinement of the Maslins target and provided a confident platform to finalise the drill hole designs.

In collaboration with OZ Minerals, the planned drill holes were prioritised and the Heritage Clearance survey for access tracks and 6 drill collar locations was completed in late December 2019. This clearance provides the ability to continue drilling should the initial holes be deemed successful.

Titeline Drilling have been awarded the contract for the diamond drilling program which commenced as announced to the ASX on 23 January 2020.

The first 2 holes to be drilled are the southernmost and northernmost as shown in Figure 2 below. Each hole has a target depth of 1000m, with the anomaly interpreted to be at a depth of approximately 600m. With an anticipated drill advance of 40m per day, each hole will take approximately 4 weeks to complete.

As at the date of this release, approximately 350m of the first hole has been drilled. Design depth of 1,000m is forecast to be reached by mid-February.



Photo 1: Titeline diamond drill set up on the first Maslins drill hole.

As shown in Figure 2 below, the data collected from the infill gravity and closer spaced MT survey, which incorporated both Audio-MT and Broadband-MT stations during October 2019, combined with historical data, has highlighted a clear and coincident relationship between the modelled gravity anomaly, and the 750ohm m resistivity inversion isosurface modelled from infill MT data. Importantly, it has also narrowed the interpreted radius of the MT conductive feature from an approximately 6 km to 2 km.

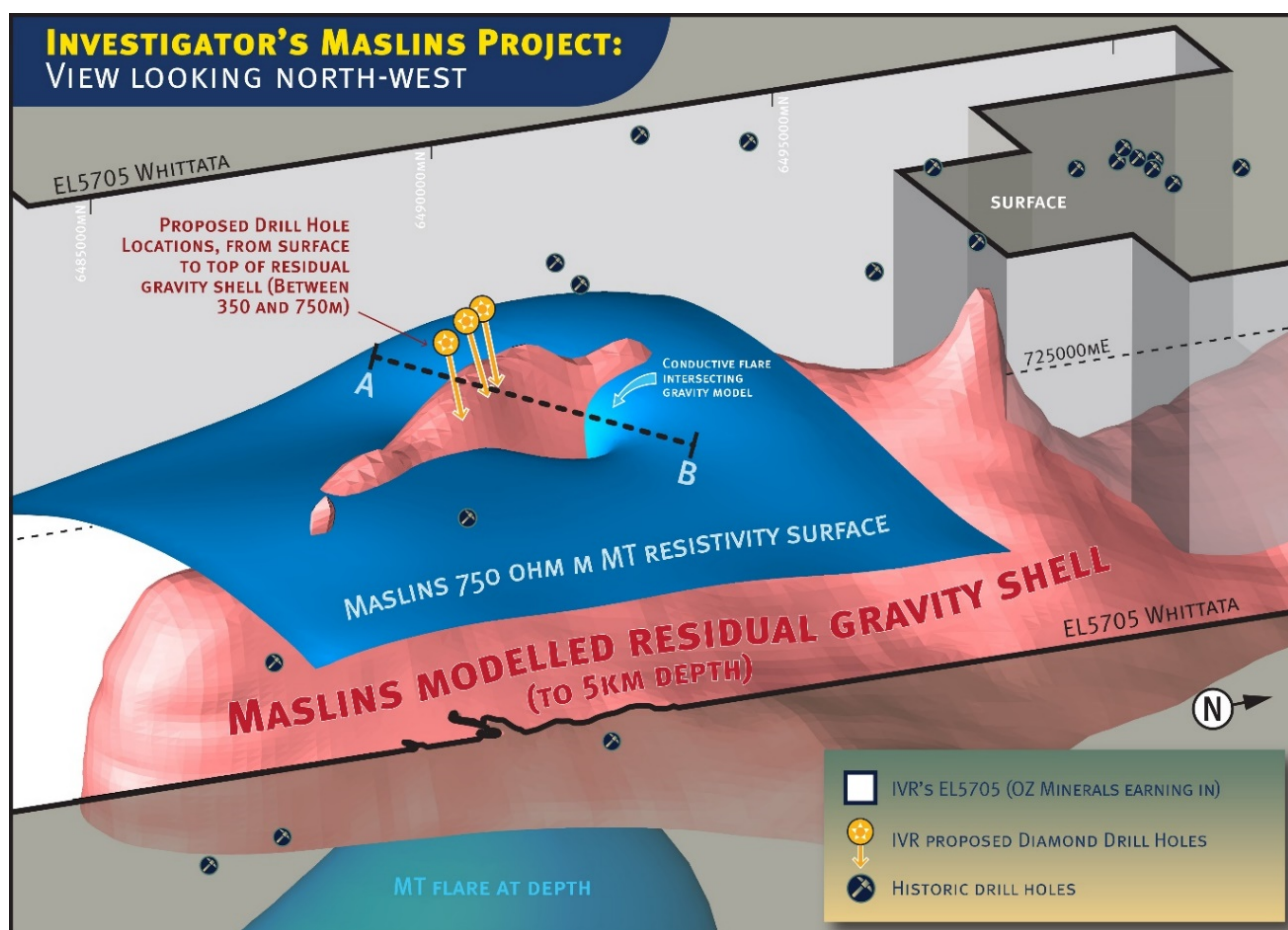


Figure 2: Coincident MT 750ohm m resistivity inversion isosurface and gravity inversion shells at Investigator's Maslins IOCG Project. The drill hole to the extreme left (south) will be drilled first.

The MT resistivity inversion (surface shown in Figure 2 above in blue) exhibits a distinct “hole” in the inversion surface. This depression in the inversion surface reflects the position of the conductive MT anomaly which clearly intersects the coincident gravity anomaly. The conductive feature, or “flare”, was previously identified in regional data acquired by both Geoscience Australia through their AusLAMP initiative and Investigator (as reported to the ASX on 24 July 2018) and is interpreted as representing a conductive, mineralised fluid flow pathway originating from the upper mantle, deep below the earth's surface.

Paris Silver Project

The Paris Silver Project, is the highest grade undeveloped non-by-product silver project in Australia with a JORC 2012 resource estimate of 9.3 Mt @ 139g/t Ag and 0.6% Pb for 42 Moz contained silver and 55 kt contained lead¹. The Paris resource is a shallow deposit of high-grade silver amenable to simple open pit mining should a decision be made to progress development.

During the quarter, an industry-leading consultant was engaged to undertake a review of the structural geology interpretation of the Paris deposit. The product of Mike Etheridge's review led Investigator to complete the construction of a refined structural geological model for Paris. This work has provided a clearer picture of where additional drilling has the potential to further improve the understanding and grade of the Paris resource.

Post the end of the quarter, a consulting group have been engaged to undertake a high-level review of the process plant design and layout and provide a revised estimate of capital and operating costs. The objective of this work is to prepare for any sustained upswing in the silver price and enable decisions to be made in relation to delivering the optimum value outcome of the Paris Silver Project.

Other Tenements

Investigator continues to engage with the Wilyakali people – the Traditional Owners of the Wiawera tenement area – with the objective of achieving a mutually beneficial working relationship to ensure that all parties' interests are protected and to enable exploration activities to commence.

A small reconnaissance soil sampling program was completed over the Wiawera and Treloars tenements. Analysis and interpretation of results are pending.

No field work was conducted on other tenements.

As a continuing part of the Company's strategy tenements are critically evaluated and, as necessary, tenements that have been identified as non-core will either be relinquished or not renewed upon expiry. As a consequence, the Googs Lake tenement was not renewed during the quarter.

As part of Investigator's continued focus on opportunities, a conceptual IOCG target was identified in the eastern Gawler Craton through work undertaken by a consultant using predictive discovery tools. A tenement application for North Well has been submitted for this area. Geophysical assessment is currently being completed to assess the veracity of this target.

¹ First reported in ASX announcement of 19 April 2017. The Company confirms that it is not aware of new information or data that materially affects the information included in the market announcement, and that material assumptions and technical parameters underpinning the estimate continue to apply.

Business Development

Investigator continues to review value accretive opportunities in the domestic gold space from early stage exploration through to production. As previously reported, the uplift in gold price has created a heightened optimism amongst vendors of projects. Some projects have been withdrawn from sale and some others we do not consider the asking price or deal terms to be appropriate and have moved on.

We remain committed to a disciplined screening and evaluation process to deliver an acquisition that will drive short to medium term value accretion for the Company and its stakeholders.

Corporate

Completion of share purchase plan

Investigator announced on 15 October 2019 that a share purchase plan raising a total of \$336,000 was completed.

The SPP was offered on equivalent terms to the September placement at 2.4c per share, with one free attaching listed option for every 3 shares acquired and exercisable at 3.5c by 31 December 2020.

A total of 14,000,025 shares and 4,666,683 options were issued to subscribing shareholders.

Board changes

On 14 October 2019 the company announced the appointment of Andrew McIlwain as Managing Director. Andrew joined Investigator as a Non-Executive Director on 20 June 2018 and took on the role of acting CEO in August 2018.

On 28 October 2019 the board announced that Dave Ransom, following his appointment as a Non-Executive Director to the board of Perseus Mining Limited (ASX:PRU) would step down as Chairman. Kevin Wilson, a Non-Executive Director of Investigator since September 2017, assumed the role of Chairman following the Company's AGM on 20 November 2019.

Cash

The company had \$4.15 million cash at bank as at 31 December 2019.

About the Maslins Project

The Maslins Project is part of Investigator's 100% owned Stuart Shelf group of tenements, granted in early 2016. The tenements were applied for on the basis of interpreted AusLAMP MT survey data, which showed a major conductive corridor passing through Prominent Hill, Olympic Dam, Carrapateena and the Maslins Project area. Compilation and interpretation of publicly available gravity and magnetic data defined the Maslins Project as a valid IOCG target. The BHP Oak Dam rediscovery lies

about 85 km along this trend to the north of the Maslins target (ASX announcement BHP 27 November 2018). BHP's subsequent drilling results announced to the ASX on 17 October 2019 reaffirm the prospectivity of the region.

Importantly, Maslins is approximately 50 kms to the south of OZ Minerals' Carrapateena Project where construction is nearing completion and first concentrate was produced in late 2019.

Maslins is a large untested gravity/magnetic/MT anomaly interpreted as having a shallower depth to basement (estimated at about 600m) than Oak Dam and Punt Hill (both drill-defined at approximately 800m depth). The modelled gravity data has revealed a residual gravity anomaly nearly 30 km long, 14 km of which is within Investigator's tenement EL 5705. The MT conductivity "flare" at Maslins is interpreted as intersecting the Maslins gravity anomaly below this residual gravity ridge (IVR ASX release 6 March 2019). Drilling at Maslins commenced in January 2020.

About the OZ Minerals Earn-In

In July 2019 Investigator announced that it had entered into a Heads of Agreement with OZ Minerals in which OZ Minerals can earn up to a 70% interest in the Maslins IOCG Project through a 3-stage program and the expenditure of \$10 M over 5 years.

Stage 1 of the Earn-In requires OZ Minerals to spend a minimum of \$1.4 M by 12 July 2020.

Table 1: Summary of Investigator Resources Limited tenements and changes during the December 2019 Quarter:

Tenement Number	Tenement Name	Registered Holder	Ownership	Note
Project: Peterlumbo (IVR 100%)				
6347	Peterlumbo	Sunthe	100%	Current
Project: Uno/Morgans (IVR 100%)				
5845	Uno Range	GRL	100%	Current
5933	Morgans	GRL	100%	Current
5913	Harris Bluff	GRL	100%	Current
Project: West Eyre Peninsula (IVR 100%)				
5512	Googs Lake	IVR	100%	Expired.
Project: Stuart Shelf (IVR 100%)				
5704	Yalymboo-Oakden Hills	GRL	100%	Current
5705	Whittata (Maslins)	GRL	100%	Regranted to 03-02-2021
5706	Yudnapinna	GRL	100%	Current
5738	Birthday	GRL	100%	Current
6402	Kootaberra	GRL	100%	Current
Project: Curnamona (IVR 100%)				
5938	Wiawera	GRL	100%	Current
6192	Plumbago	GRL	100%	Current
6345	Treloars	GRL	100%	Current
6253	Olary/Bulloo Creek	GRL	100%	Current
Project: Adelaide Geosyncline (IVR 100%)				
5999	Cartarpo	GRL	100%	Current
6226	Screechowl Creek	GRL	100%	Current
Project: Northern Craton (IVR 100%)				
6187	Algebuckina	GRL	100%	Current
** Applications **				
2019/00164	North Well	GRL	100%	Application pending offer

Notes: IVR - Investigator Resources Ltd.

- IVR 100% - Investigator Resources Ltd and its wholly owned subsidiaries.
- Sunthe - Sunthe Uranium Pty Ltd, a wholly owned subsidiary of Investigator Resources Ltd.
- GRL - Gawler Resources Pty Ltd, a wholly owned subsidiary of Investigator Resources Ltd.
- All tenements are in South Australia

ABOUT INVESTIGATOR RESOURCES

Investigator Resources Limited (ASX code: IVR) is a metals explorer with a focus on the opportunities for silver-lead, copper-gold and other metal discoveries.

The Company is well positioned in the Olympic Domain with the Maslins IOCG Project, supported by a farm-in agreement with OZ Minerals Limited with drilling of the first diamond drill hole commenced in January 2020.

Investors are encouraged to stay abreast of Investigator's news and announcements by registering their interest via the following weblink address: <https://investres.com.au/enews-updates/>

CAPITAL STRUCTURE

As at 31 December 2019

- Shares on issue 845,643,723
- Listed Options 203,838,367
- Unlisted Options 24,500,000
- Performance Rights 15,000,000

The top 20 shareholders at 31 December 2019 held 25.14% of the shares on issue

Total shareholders: 3,350.

SUBSTANTIAL SHAREHOLDERS

As at 31 December 2019:

- CITICORP Nominees Pty Limited – 6.02%.

ASX listing code: IVR

DIRECTORS AND MANAGEMENT

Mr Kevin Wilson (Non-Exec. Chairman)

Mr Andrew McIlwain (Managing Director & CEO)

Dr David Ransom (Non-Exec. Director)

Ms Melanie Leydin (CFO and Joint Company Secretary)

Ms Anita Addorisio (Joint Company Secretary)

COMPETENT PERSON COMPLIANCE STATEMENT

The information in this announcement relating to exploration results is based on information compiled by Mr. Jason Murray who is a full-time employee of the company. Mr. Murray is a member of the Australian Institute of Geoscientists. Mr. Murray has sufficient experience of relevance to the styles of mineralisation and the types of deposits under consideration, and to the activities 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, Mineral Resources and Ore Reserves. Mr. Murray consents to the inclusion in this report of the matters based on information in the form and context in which it appears.

The information in this announcement that relates to Mineral Resources Estimates at the Paris Silver Project is extracted from the report entitled "Significant 26% upgrade for Paris Silver Resource to 42Moz contained silver" dated 19 April 2017 and is available to view on the Company website www.investres.com.au. 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 and that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement 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.

FOR FURTHER INFORMATION:

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ABN 90 115 338 979

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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

INVESTIGATOR RESOURCES LIMITED

ABN

90 115 338 979

Quarter ended ("current quarter")

December 2019

Consolidated statement of cash flows	Current quarter \$A'000	Year to date (6 months) \$A'000
1. Cash flows from operating activities		
1.1 Receipts from customers	10	10
1.2 Payments for		
(a) exploration & evaluation	(291)	(478)
(b) development	-	-
(c) production	-	-
(d) staff costs	(95)	(131)
(e) administration and corporate costs	(152)	(433)
1.3 Dividends received (see note 3)	-	-
1.4 Interest received	8	15
1.5 Interest and other costs of finance paid	-	-
1.6 Income taxes paid	-	-
1.7 Research and development refunds	-	-
1.8 Other (Maslins' JV Contribution)	1,458	1,627
1.9 Net cash from / (used in) operating activities	938	610

2. Cash flows from investing activities		
2.1 Payments to acquire:		
(a) property, plant and equipment	-	-
(b) tenements (see item 10)	-	-
(c) investments	-	-
(d) other non-current assets	-	-

Consolidated statement of cash flows		Current quarter \$A'000	Year to date (6 months) \$A'000
2.2	Proceeds from the 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	-	-
2.6	Net cash from / (used in) investing activities	-	-

3.	Cash flows from financing activities		
3.1	Proceeds from issues of shares	337	2,537
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	(61)	(200)
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)	-	-
3.10	Net cash from / (used in) financing activities	276	2,337

4.	Net increase / (decrease) in cash and cash equivalents for the period		
4.1	Cash and cash equivalents at beginning of period	2,938	1,205
4.2	Net cash from / (used in) operating activities (item 1.9 above)	938	610
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)	276	2,337
4.5	Effect of movement in exchange rates on cash held	-	-
4.6	Cash and cash equivalents at end of period	4,152	4,152

5. Reconciliation of cash and cash equivalents at the end of the quarter (as shown in the consolidated statement of cash flows) to the related items in the accounts	Current quarter \$A'000	Previous quarter \$A'000
5.1 Bank balances	232	2,068
5.2 Call deposits	3,920	870
5.3 Bank overdrafts	-	-
5.4 Other (provide details)	-	-
5.5 Cash and cash equivalents at end of quarter (should equal item 4.6 above)	4,152	2,938

6. Payments to directors of the entity and their associates

- 6.1 Aggregate amount of payments to these parties included in item 1.2
- 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

**Current quarter
\$A'000**

94

-

Transactions during the current quarter include director fees, director consulting fees, director salaries and superannuation.

7. Payments to related entities of the entity and their associates

- 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

**Current quarter
\$A'000**

-

-

N/A

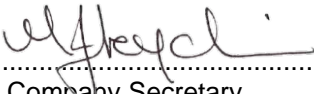
8. Financing facilities available <i>Add notes as necessary for an understanding of the position</i>	Total facility amount at quarter end \$A'000	Amount drawn at quarter end \$A'000
8.1 Loan facilities	-	-
8.2 Credit standby arrangements	-	-
8.3 Other (please specify)	-	-
8.4 Include below a description 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.		

9. Estimated cash outflows for next quarter	\$A'000
9.1 Exploration and evaluation	1,200
9.2 Development	-
9.3 Production	-
9.4 Staff costs	70
9.5 Administration and corporate costs	120
9.6 Other (provide details if material)	-
9.7 Total estimated cash outflows	1,390

10. Changes in tenements (items 2.1(b) and 2.2(b) above)	Tenement reference and location	Nature of interest	Interest at beginning of quarter	Interest at end of quarter
10.1 Interests in mining tenements and petroleum tenements lapsed, relinquished or reduced	EL5512 Googs Lake	Lapsed	100%	0%
10.2 Interests in mining tenements and petroleum tenements acquired or increased				

Compliance statement

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

Sign here: 

Company Secretary

Date: 29 January 2020

Print name: Melanie Leydin

Notes

1. 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 6: Exploration for and Evaluation of Mineral Resources and 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 standards apply 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.