

## ACTIVITIES REPORT FOR DECEMBER QUARTER, 2016

### HIGHLIGHTS

- **Renewal of SPL 1451 and SPL 1452 licences imminent – statutory fees paid**
- **Drill targets selected on Ono Island that target high sulphidation epithermal gold deposition**
- **Drill program on Ono to commence first quarter 2017**

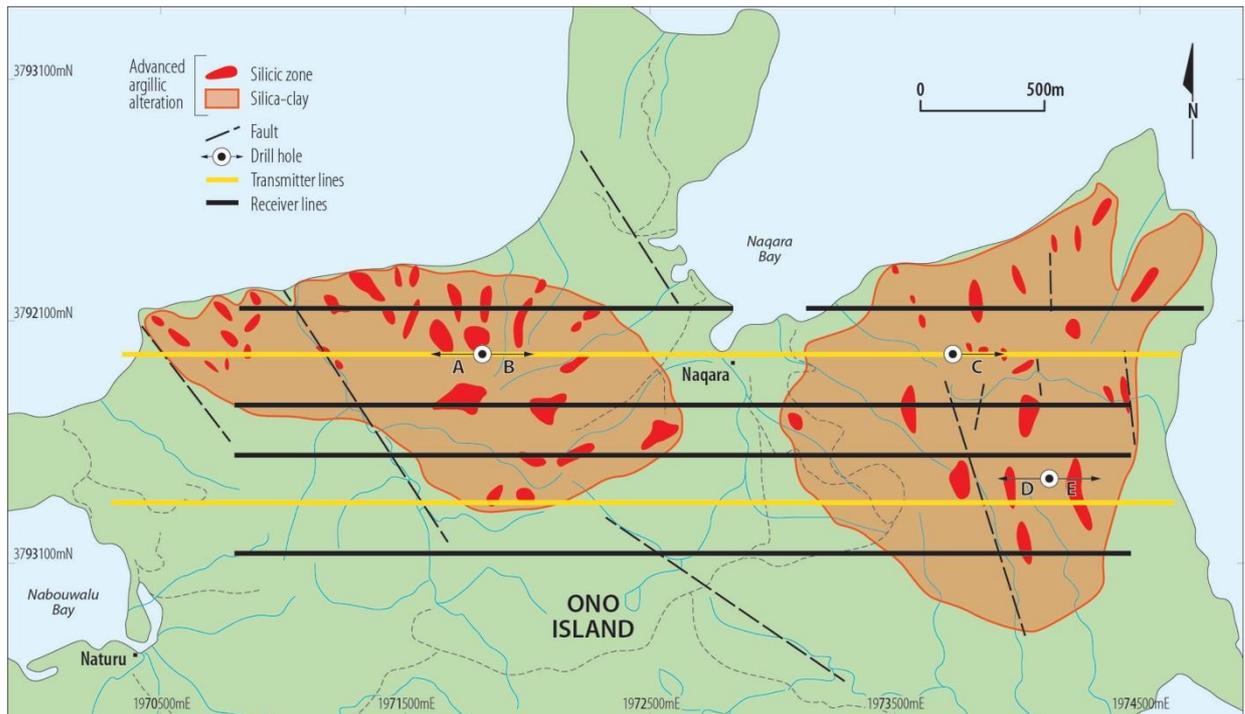
#### Corporate:

- **\$833,533 cash position as at 31 December 2016**

Dome Gold Mines Limited (“Dome” or “the Company”) (ASX: DME) is pleased to report on activities at its industrial sand-magnetite, copper and gold projects in Fiji for the period ended 31 December 2016.

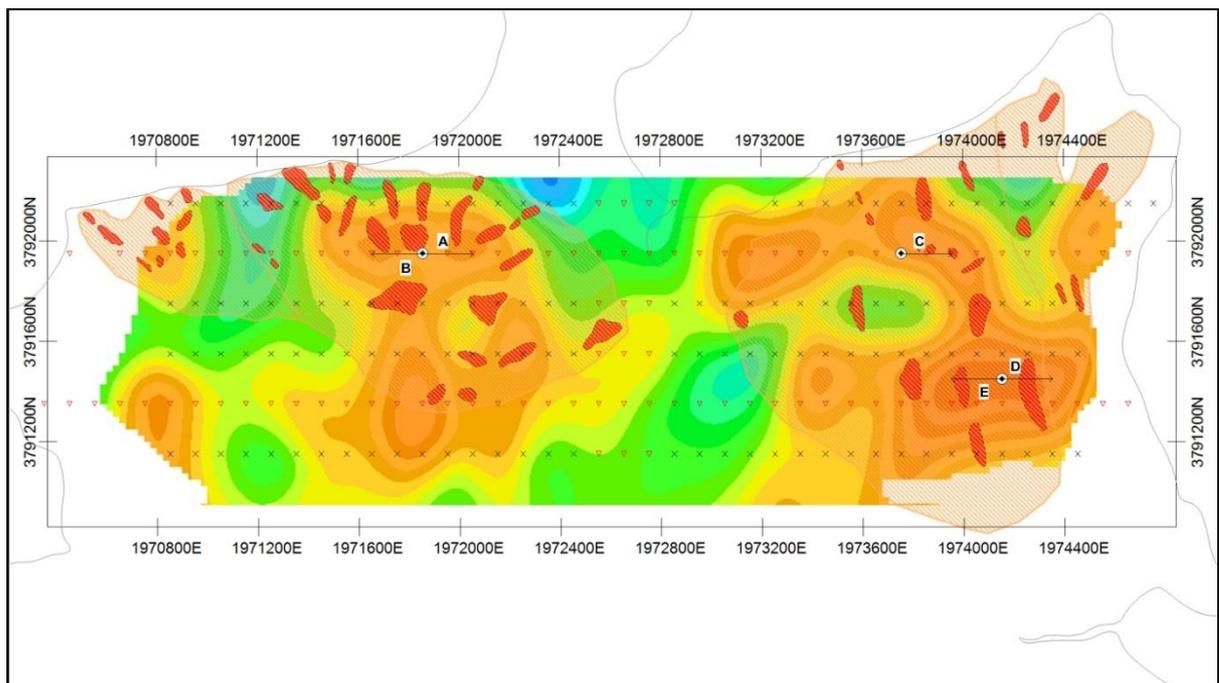
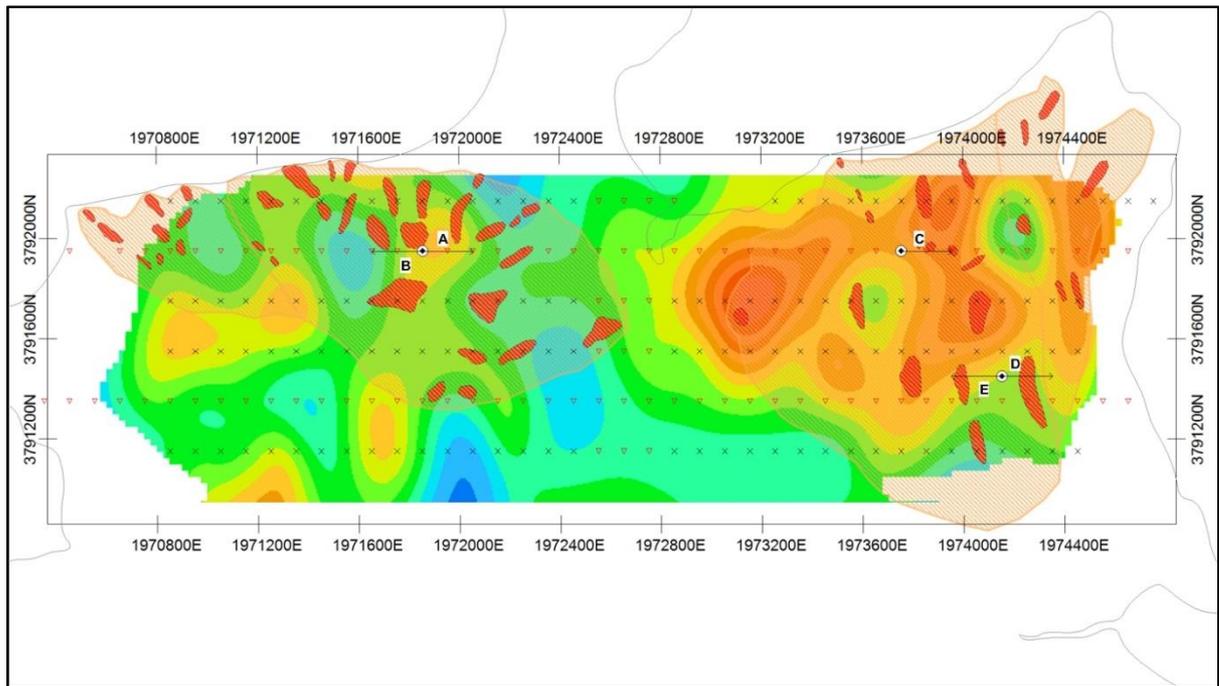
#### Ono Island Project (SPL 1451)

The Company previously announced (see Dome September 2016 Quarterly report) that an offset pole-dipole IP survey had been successfully completed on two adjacent high sulphidation epithermal gold prospects on the northern part of Ono Island.



**Figure 1 - Naqara East and West Prospects on Ono Island showing the extent of hydrothermal alteration and the IP survey lines. Proposed drill hole locations (A to E) are based on the IP results and surface geology**

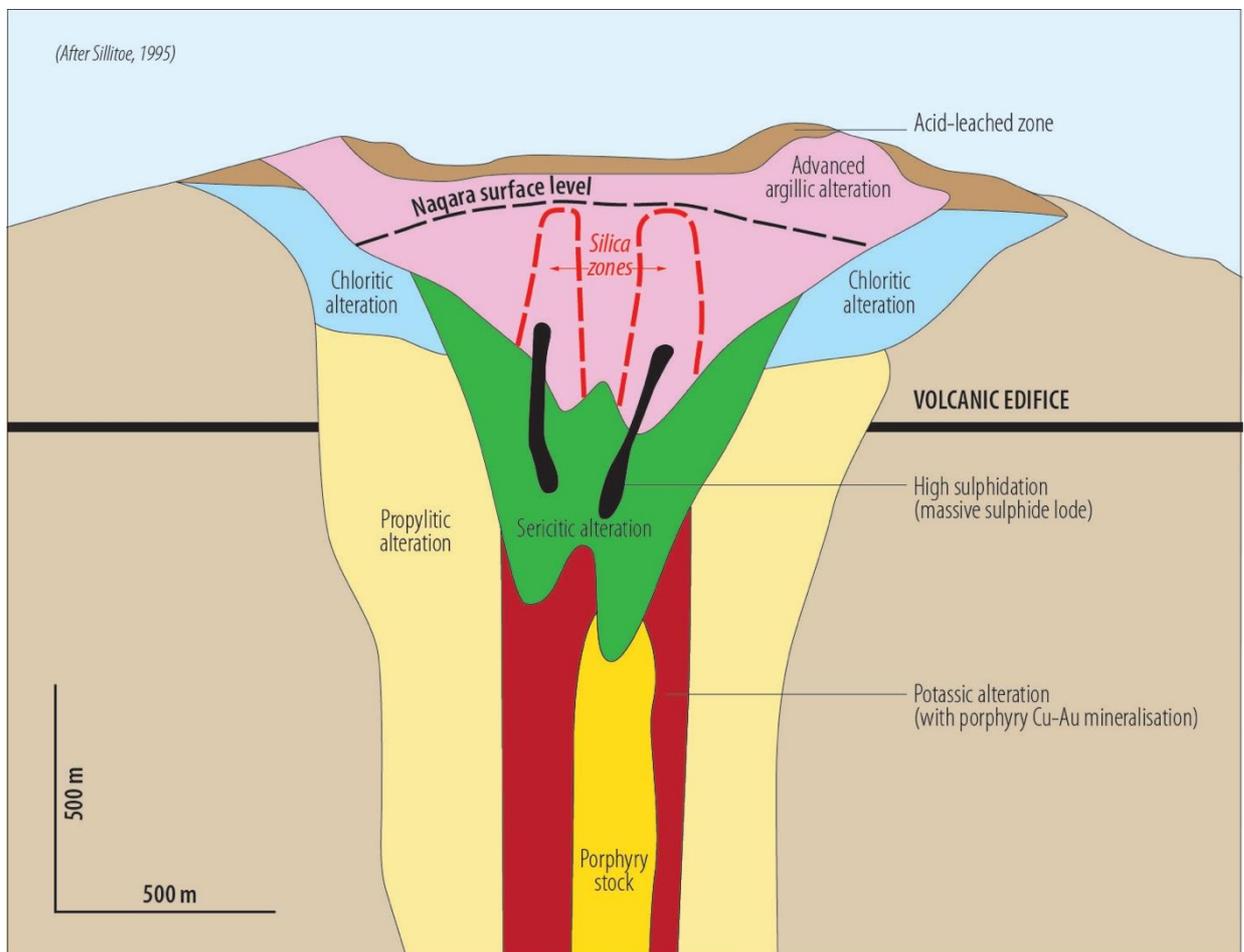
Upon renewal of the SPL 1451 licence for a further three years, preparations to undertake an exploration diamond drill program on two prospects, Naqara East and Naqara West will be finalised. The two prospects had previously been outlined by soil sampling and geological mapping campaigns that outlined zones of intense argillic alteration or silicification associated with anomalous multi-metal geochemistry. Both prospects are proximal to the northern rim of the main volcanic caldera (Figure 1) on Ono Island.



**Figures 2 & 3 - Plots of the chargeability (top) and resistivity responses at an apparent depth of 250m with the outline of the argillic (hatch) and silicification (red) superimposed as well as locations recommended for exploration drilling.**

Interpretation of the offset pole-dipole IP survey completed in 2016 has identified a number of resistivity and conductivity anomalies that may host epithermal gold-silver mineralisation.

The two arrays on the eastern Naqara prospect produced coherent data showing a NNW trending linear resistivity anomaly that was evident nearer surface and coincident with a distinct chargeability anomaly at increasing depth. The relationship between resistivity and chargeability is poor near surface at Naqara West, but there are indications of increasing chargeability at depth, although the response is not as persistent nor as strong as at the Naqara East prospect. In part this may be due to the chargeability response (particularly at the Naqara West prospect) being impacted by the proximity and incursion of seawater and the rugged and more deeply incised terrain in the west. This contributed to “low earth resistivities” particularly for deeper readings (below 300m to 400m).



**Figure 4 – Schematic model of a volcano showing the typical location of sulphide mineralisation relative to the interpreted land surface on Ono Island.**

Results from the IP survey in combination with anomalous geochemistry, geological/alteration mapping and petrological studies of outcrop samples justify undertaking an initial exploration drilling program on Ono Island, one of the few remaining untested epithermal targets along the so-called “Rim of Fire” in the South West Pacific.

The schematic model in Figure 4 shows how the hydrothermal alteration, anomalous geochemistry, present land surface and IP data may indicate the presence of gold-silver bearing sulphide mineralisation in this environment.

#### **Nadrau Project (SPL 1452)**

No exploration was conducted on the Nadrau Porphyry Copper-Gold Project during the quarter. Statutory licence and land rental fees have now been paid to the MRD in respect of the SPL and the Company anticipates a three-year renewal of the licence will be processed shortly.

#### **Sigatoka Project (SPL 1495)**

Funding continues to be sought to complete the Definitive Feasibility Study on the Sigatoka industrial sand-magnetite project.

### **EXPLORATION PLANS – MARCH QUARTER 2017**

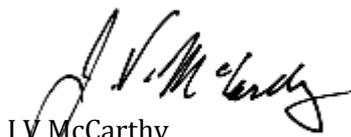
Following on from the offset pole-dipole IP survey at Ono Island, a ten-hole diamond drilling program is being planned, with two holes in Naqara West and three proposed at Naqara East followed by a further five holes on the best targets. These initial holes are designated A, B, C, D and E on Figures 1, 2 and 3.

### **CORPORATE**

#### **Cash position**

As at 31 December 2016, Dome held \$833,533 in cash.

For further information about Dome and its projects, please refer to the Company's website [[www.domegoldmines.com.au](http://www.domegoldmines.com.au)] or contact the Company at (02) 8203 5620.



J V McCarthy  
Chief Executive Officer

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**COMPETENT PERSONS' STATEMENTS:**

*The information in this report that relates to Exploration Results is based on information compiled by John McCarthy, who is Chief Executive Officer of the Company. Mr McCarthy is a geologist who is a Member of the Australasian Institute of Mining and Metallurgy and has sufficient experience which is relevant to the style of mineralisation and type of deposits under consideration and to the activities 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 McCarthy indirectly holds shares in the Company and consents to the inclusion in this report of the matters based on his information in the form and context in which it appears.*

*The information in this report that relates to Geophysical Results is based on information compiled by Steve Collins, who is an independent consultant employed by Arctan Services Pty Ltd. Mr Collins is a Member of the Australasian Institute of Geoscientists and has sufficient experience which is relevant to the style of mineralisation and type of deposits under consideration and to the activities 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 Collins holds no shares in the Company or the property and consents to the inclusion in this report of the matters based on his information in the form and context in which it appears.*

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**ABOUT DOME**

Dome is an Australian mining company, which listed on the ASX on 22 October 2013. The Company is focussed on gold, copper and mineral sands in Fiji, where it holds three highly prospective exploration tenements. The Company's objective is to become a major force in the mining industry of Fiji by the discovery and development of mineral resources within its Fijian tenements.

Sigatoka is a mineral sand project containing abundant heavy metals including magnetite. Drilling to establish an initial resource estimate for the project has been completed, and further drilling is expected to increase the resource base substantially. Commencement of production at Sigatoka by conventional dredging and wet processing is anticipated within two years.

Our other projects are the Ono Island epithermal gold project and the Nadrau porphyry copper-gold project.

Dome's Board and Management team has a high level of experience in Fiji, and Dome has been actively exploring in Fiji since 2008.

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**DOME MINES LTD TENEMENT SCHEDULE**

Tenement	Name	Holder	Interest %	Area (hectares) at	
				31 March 2016	Expiry Date
<b>SPL 1451</b>	Ono Island	Dome Mines Ltd	100	3,028	22/08/2016*
<b>SPL 1452</b>	Central Viti Levu	Dome Mines Ltd	100	33,213	26/08/2016*
<b>SPL 1495</b>	Sigatoka Ironsand	Magma Mines Ltd	100	2,522	13/07/2018

\* Applications to renew these Special Prospecting Licences for a further 3-year period have been submitted to the Mineral Resources department, Fiji. The Company has complied with an MRD request to pay statutory licence and land rental fees so the three-year renewals are now in the final stages of processing.

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