

# DGO Gold Limited

ABN 96 124 562 849

Principal office:

27 General Macarthur Place  
Redbank Qld 4301  
Australia

Postal address:

P.O. Box 294  
Carole Park Qld 4300  
Australia

Telephone: + 61 7 3381 5368

Facsimile: + 61 7 3381 5365

Email: [ilet@dgogold.com.au](mailto:ilet@dgogold.com.au)

Website: [www.dgogold.com.au](http://www.dgogold.com.au)

24 October 2017

Company Announcements Office  
ASX Limited  
20 Bridge Street  
SYDNEY NSW 2000

Dear Sirs,

## Pilbara Sediment Hosted Gold Exploration

DGO Gold Limited's ("DGO") recent field activities at **Mallina**, 75 kilometres south east of Karratha in the Pilbara, and a literature review of the comparison of the Witwatersrand succession of South Africa with the Pilbara WA Fortescue Group has resulted in:

- The discovery of at **least 4 kilometres of strike length** of the basal contact position of the **Mount Roe basalt** with some **conglomerate** outcrop in the western part of **EL47/3227 (Mallina)**.
- The finding of **2 gold nuggets** by metal detecting at Scottie Well, weighing **12 grams** and **1 gram** respectively, within the first 2 days of field activities.
- **Exploration licence applications totaling 2,655 square kilometres** in five target areas around the margin of the Northeast Pilbara Sub-Basin to the east and southeast of Mallina.
- The company's Pilbara land holdings now total 2,899 square kilometres subject to the applications being granted

## Mallina Tenements, Pilbara, Western Australia

Mallina is located 75 kilometres east of Purdy's Reward, where the Artemis Resources Limited (ASX: ARV) / Novo Resources joint venture has discovered gold nuggets in conglomerate, and 8 kilometres south west of Loudens Patch where recently gold nuggets were discovered by De Grey Mining Limited (ASX: DEG; "Gold nuggets confirm important new conglomerate discovery – Loudens Patch", 26 September 2017) to be associated with a conglomerate at the base of the Mount Roe Basalt (See Figures 1 and 2).

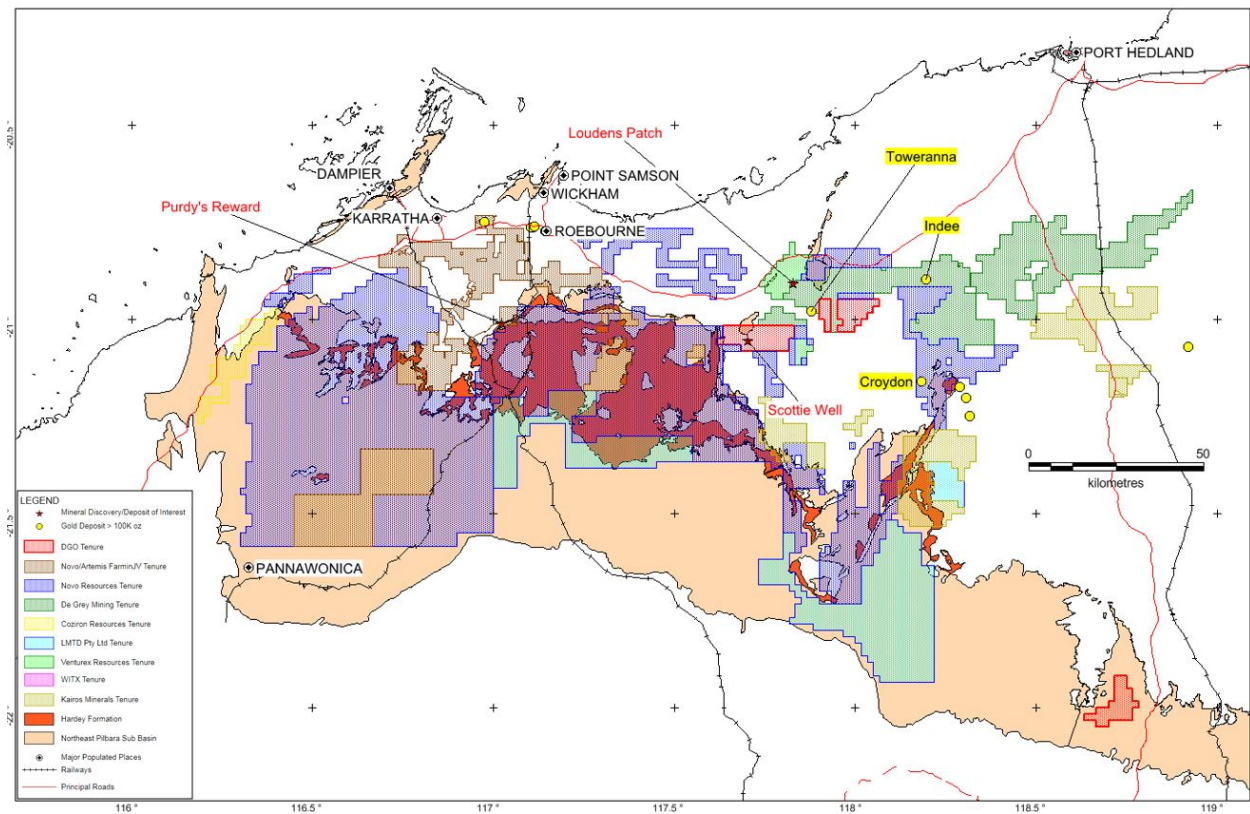


Figure 1: DGO Mallina Tenure relative to the Novo and De Grey tenure

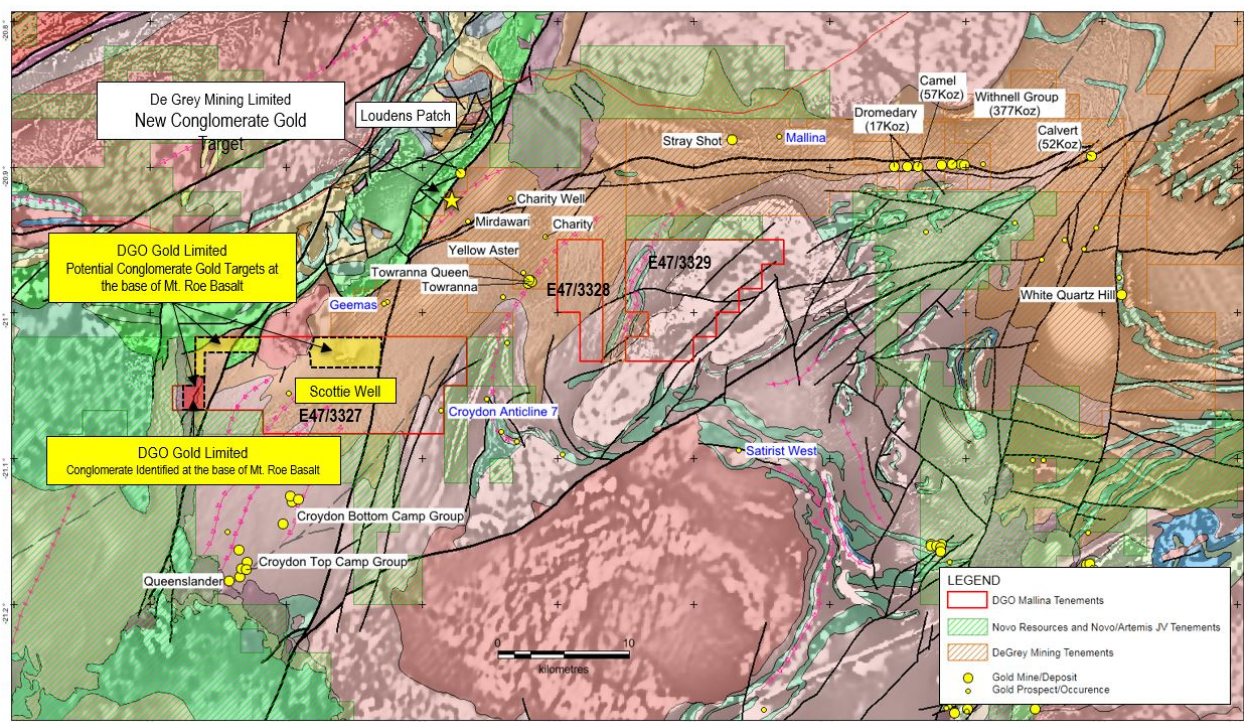
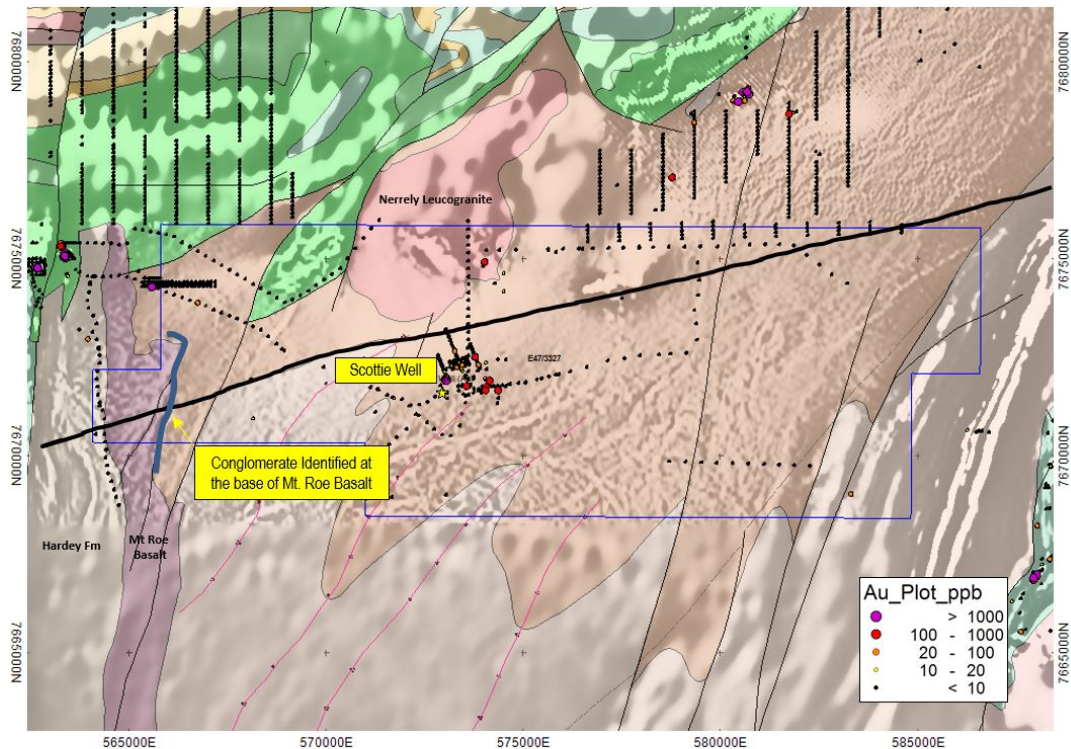


Figure 2: DGO Mallina Tenure with Significant Gold Deposits / Occurrences and Targets





Surface Au sampling over E47/3327 DGO tenement with significant concentrations seen in proximity to Scottie Well. Mt Roe Basalts of the Fortescue group have been confirmed by Novo and Artemis to host high grade gold within basal conglomerates. This unit resides on the western side of E47/3327 tenement and is lacking in surface geochemistry coverage.

Figure 3 – EL 47/3327 Geochemistry over Geology – Basal Conglomerate Highlighted

DGO's recent field activity at Mallina has discovered 2 gold nuggets, of 12 grams and 1 gram respectively, (see Figure 4) at Scottie Well in EL 47/3227 where past exploration outlined gold in soil anomaly over an area of approximately 2 square kilometres. This soil anomaly also overlaps the southern end of a near surface VTEM anomaly which resulted from interpretation of the helicopter borne VTEM survey conducted by Normandy Exploration in 2000.



Figure 4: 12g gold nugget found at Scottie Well within EL 47/3327

Field reconnaissance has identified a conglomerate at the base of the Mount Roe Basalt in the western area of EL47/3227 (see Figure 3), on the eastern flank of a broadly north – south trending ridge (see Figure 5). The Mount Roe Basalt dips at 10-25 degrees to the west. The basal contact, although largely obscured by basalt scree or alluvium, has a strike length of at least 4 kilometres within the company's land. Past exploration by Aarex Resources NL in 1997 resulted in 2 modest soil anomalies 1 kilometre north of the outcropping basal contact of the Mount Roe Basalt in the northwest corner of EL 47/3227 (see Figure 3).



Figure 5: Ridge of Mt Roe Basalt – eastern scarp looking south – EL 47/3327

The conglomerate at the base of the Mt Roe Basalt is weakly to moderately foliated with sub-rounded to sub-angular cobble sized to coarse grained clasts. Clasts consist of quartz, chert, chlorite-sericite schist and possible basalt within a weakly chloritic groundmass (see Figure 6).

The significance of the gold nuggets remains to be determined. The nuggets are potentially related to an eastern extension (under cover of alluvium) of the conglomerate at the base of the Mount Roe Basalt 8 kilometres to the west, or to gold mineralisation in the underlying Mallina Formation.





Figure 6: Conglomerate at base of Mt Roe Basalt – western side of EL 47/3327

DGO has identified two other areas within the company's exploration licence (EL 47/3327) with potential for the location of Mount Roe Basalt (see Figure 2) as a consequence of the important discovery by De Grey Mining Limited of Mount Roe Basalt outcrop and gold nuggets in the vicinity of outcropping conglomerate 8 kilometres to the northeast at Loudens Patch.

A comprehensive program of supervised metal detecting and geological reconnaissance is continuing at Mallina. A Program of Work incorporating air core and reverse circulation drilling and costeaning has been submitted to the Department of Minerals and Energy for approval.

### **New Land Applications, Pilbara, Western Australia**

A total of 13 Exploration Licence applications covering 2,655 square kilometres have been lodged (see Figures 7 and 8) as a consequence of a literature review and comparison of the Fortescue Group of the Pilbara with the Witwatersrand Basin of South Africa.

The Novo-Artemis gold nugget discovery at Purdy's Reward south of Karratha WA are associated with the Mount Roe Basalt and associated sedimentary units at the base of the Fortescue Group. The Mount Roe Basalt and the overlying Hardey Formation, Tumbiana Formation and the Jeerinah Formation overlap in geological age with the Witwatersrand Basin 2700-3000 Ma (see Figures 8 and 9). The Hardey, Tumbiana and the lower part of the Jeerinah Formations appear to have sedimentary components suitable for the development of sequence boundaries at which the gold "reefs" occur within the Witwatersrand Basin sediments. The Witwatersrand gold "reefs" are associated with distinctive thin conglomerate and sandstone horizons which occur at specific positions within the mid to upper part of the basin sediments.

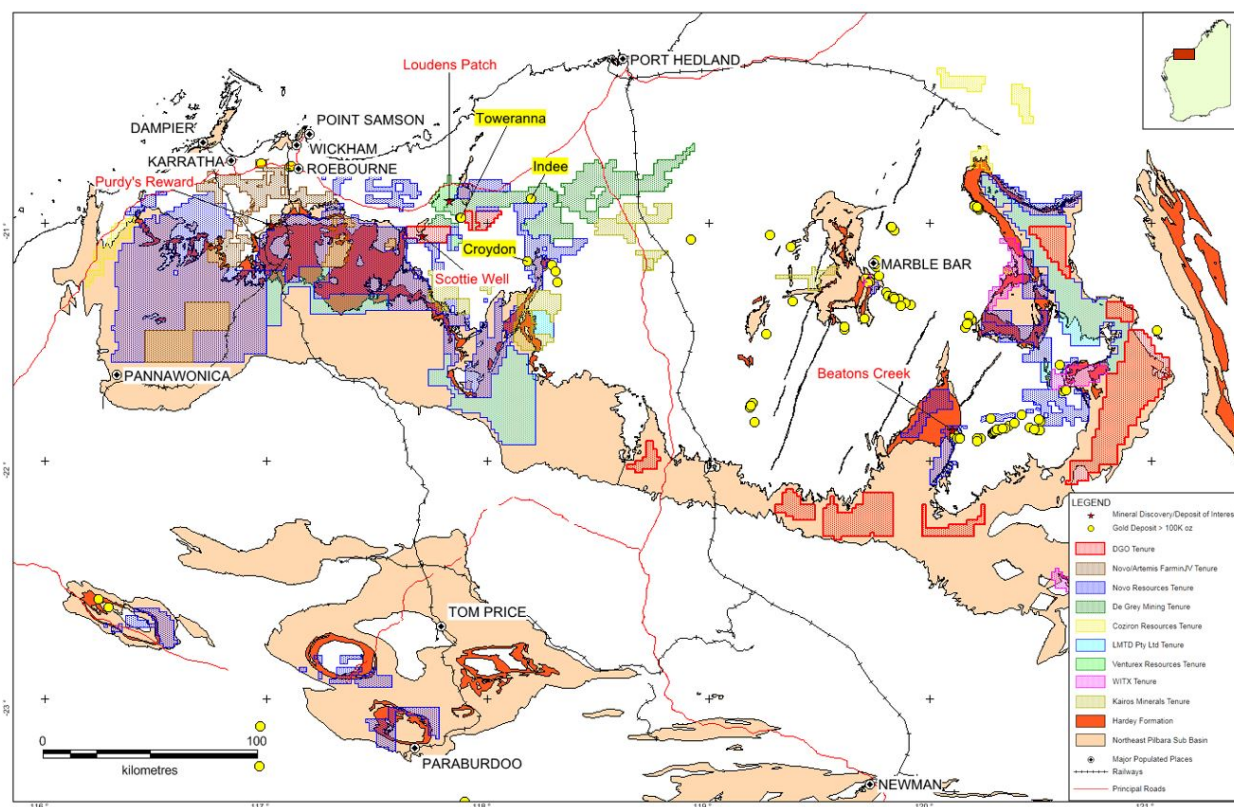


Figure 7 – DGO Mallina Tenure and Pilbara Exploration Licence Applications

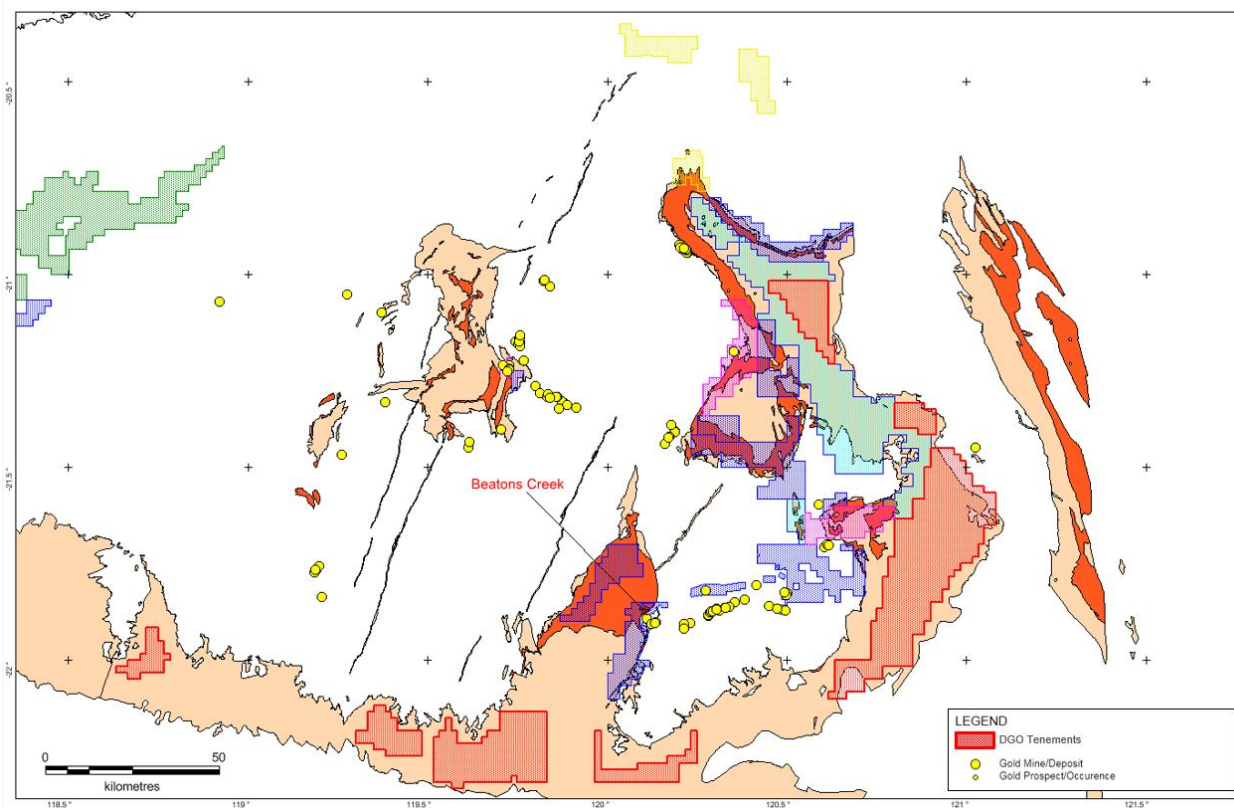


Figure 8: DGO Pilbara Exploration Licence Applications



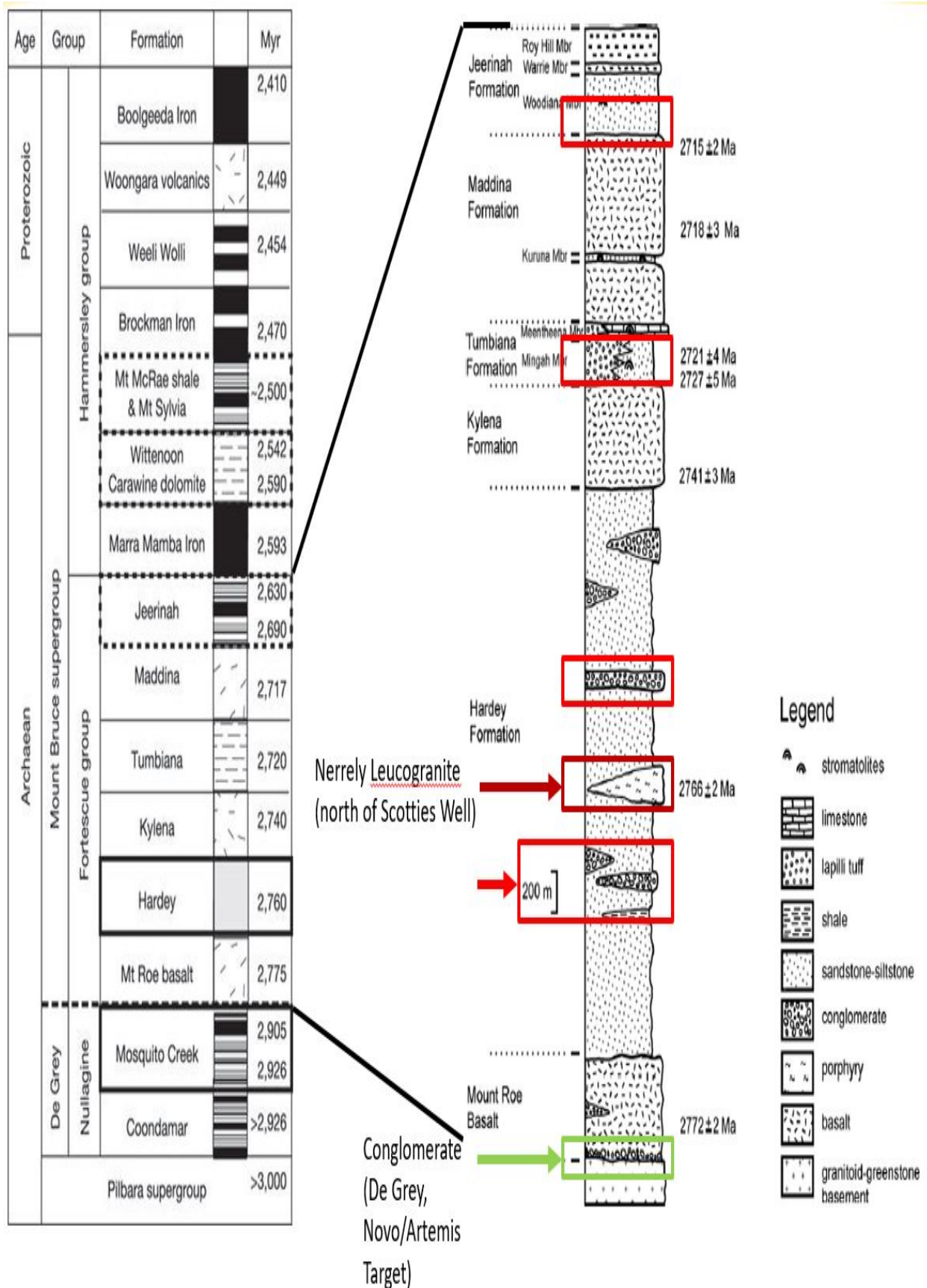


Figure 9: Fortescue Group Stratigraphic Column

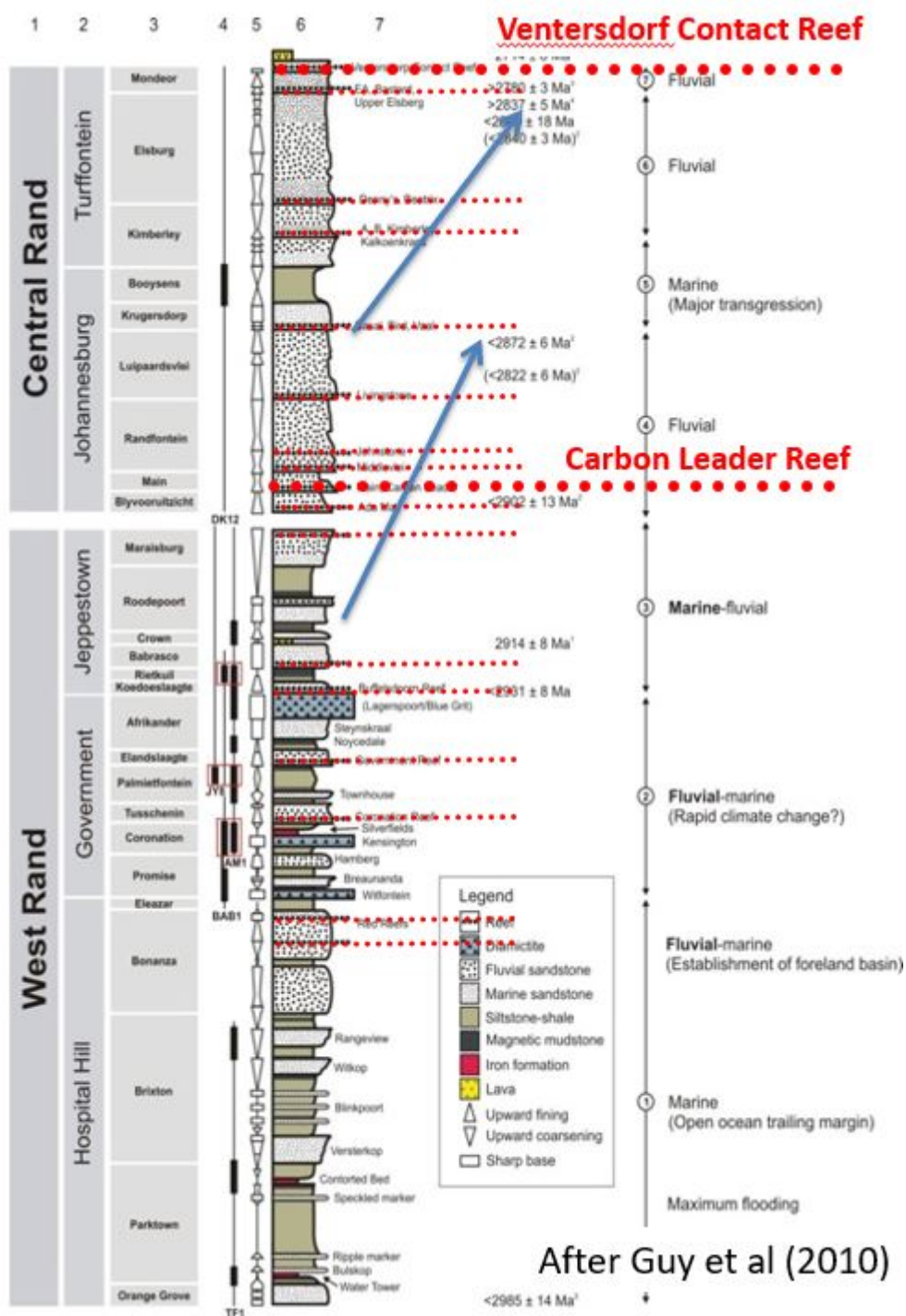


Figure 10: Witwatersrand Stratigraphic column

Compilation of open file past exploration data and geological literature research has commenced.

The company now holds a total of 2,899 square kilometres of land in the Pilbara subject to the granting of the new licence applications.



## **DGO Gold**

DGO's exploration strategy is focused on the search for major sediment-hosted gold deposits in Australia. The company holds exploration land positions in the Pilbara WA, The Eastern Goldfields, WA, and the Adelaide Geosyncline in SA covering 7,321 km<sup>2</sup>.

The company's strategy, led by veteran gold geologist, Executive Chairman Ed Eshuys is based on the extensive research of Distinguished Professor Ross Large, former Head of the Centre for Excellence in Ore Deposits (CODES) of the University of Tasmania. Professor Large is a member of DGO's specialist consultant team that includes Professor Neil Phillips, former head of Minerals at CSIRO and a specialist in Witwatersrand basin gold mineralisation, Dr Stuart Bull a sedimentary basin specialist and Barry Bourne of Terra Resources, a highly experienced mineral exploration geophysicist.

Research undertaken by CODES has identified a concentration of the world's major gold deposits during several distinct geological time frames coinciding with periods of higher than normal concentration of gold in the oceans. DGO's landholdings have been acquired in favourable locations in sedimentary basins of analogous geological age.

Please contact the Company if you have further queries in relation to this announcement.

Yours faithfully

**DGO GOLD LIMITED**

A handwritten signature in black ink, appearing to read 'E. Eshuys', with a stylized flourish at the end.

**EDUARD ESHUYS**  
**CHAIRMAN**