



11<sup>th</sup> August 2016

## Widespread Pegmatites within Zenith's Split Rocks Lithium Project

- Pegmatites with thicknesses greater than 50m recorded in historical drill logs over a 2.8km by 0.3km area north and east of the British Hill gold deposit, whilst several historical exploration reports note pegmatites extending over 26km of strike of the Van Uden Shear Zone, central to Zenith's new exploration licence applications;
- None of the pegmatites have been previously assayed for lithium;
- Preliminary field traverses by Zenith geologists confirm thick pegmatite zones in spoil piles from historic RAB drilling. Thorough surface mapping and sampling, plus resampling and assaying of old drill material to precede planned drill testing.
- Zenith's tenure covers 480 square kilometres and contains multiple segments of the lithium prospective Forrestania Greenstone Belt, with potential strike extensions to the new Mt Holland lithium project as described in recent Kidman Resources Limited announcements, including an area approximately 2km x 500m where historic drilling intersected pegmatites immediately adjoining Kidman's Van Uden North lithium target;

Zenith Minerals Limited ("Zenith" or "the Company") is pleased to advise that review of previous exploration activity conducted within its new 100% owned exploration licence applications at Split Rocks in the Forrestania Greenstone Belt of Western Australia has identified multiple references to pegmatites that may be potential hosts to lithium mineralisation.

Pegmatites with thicknesses greater than 50m are recorded in historical drill logs over a 2.8km by 0.3km area north and east of the British Hill gold deposit, whilst several, historical exploration reports record pegmatites extending over 26km of strike of the Van Uden Shear Zone, within the central portion of Zenith's new exploration licence applications. Pegmatites were logged in multiple shallow drill holes completed by three separate companies whilst another company identified pegmatites during geological mapping programs exploring for gold (Figure 1).

Zenith's tenure covers 480 square kilometres and contains multiple segments of the lithium prospective Forrestania Greenstone Belt, with potential strike extensions to the new Mt Holland lithium project as described in recent Kidman Resources Limited announcements, including an area approximately 2km x 500m with pegmatites in historic drilling immediately adjoining Kidman's Van Uden North lithium target.

The Company notes that the majority of previous exploration activity reviewed is surface sampling focused solely on gold exploration, with no evidence of any lithium analyses during past exploration programs, nor any significant fresh rock drilling programs.

### Corporate Details

#### ASX: ZNC

Issued Shares (ZNC)	172.9 m
Listed options (ZNCO)	22.1 m
Unlisted options	1.1 m
Mkt. Cap. (\$0.10)	A\$ 17.9m
Cash 30 <sup>th</sup> Jun 16	A\$1.5 m
Debt	Nil

### Directors

**Michael Clifford:**  
Managing Director

**Mike Joyce:**  
Non Exec Chairman

**Stan Macdonald:**  
Non Exec Director

**Julian Goldsworthy:**  
Non Exec Director

### Major Shareholders

City Corp Nom	7.09%
HSBC Custody. Nom.	6.66%
Granich	6.12%
GDR PL	4.27%
Miquilini	3.49%

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Zenith's geologists believe that the new application areas are highly prospective for lithium as well as gold mineralisation. The Forrestania Greenstone Belt is intruded by abundant pegmatite dykes, many of which are now being shown to be lithium (spodumene) rich.

Initial surface mapping and rock sampling along with resampling of historic drill hole cuttings where preserved, is planned prior to drill testing.

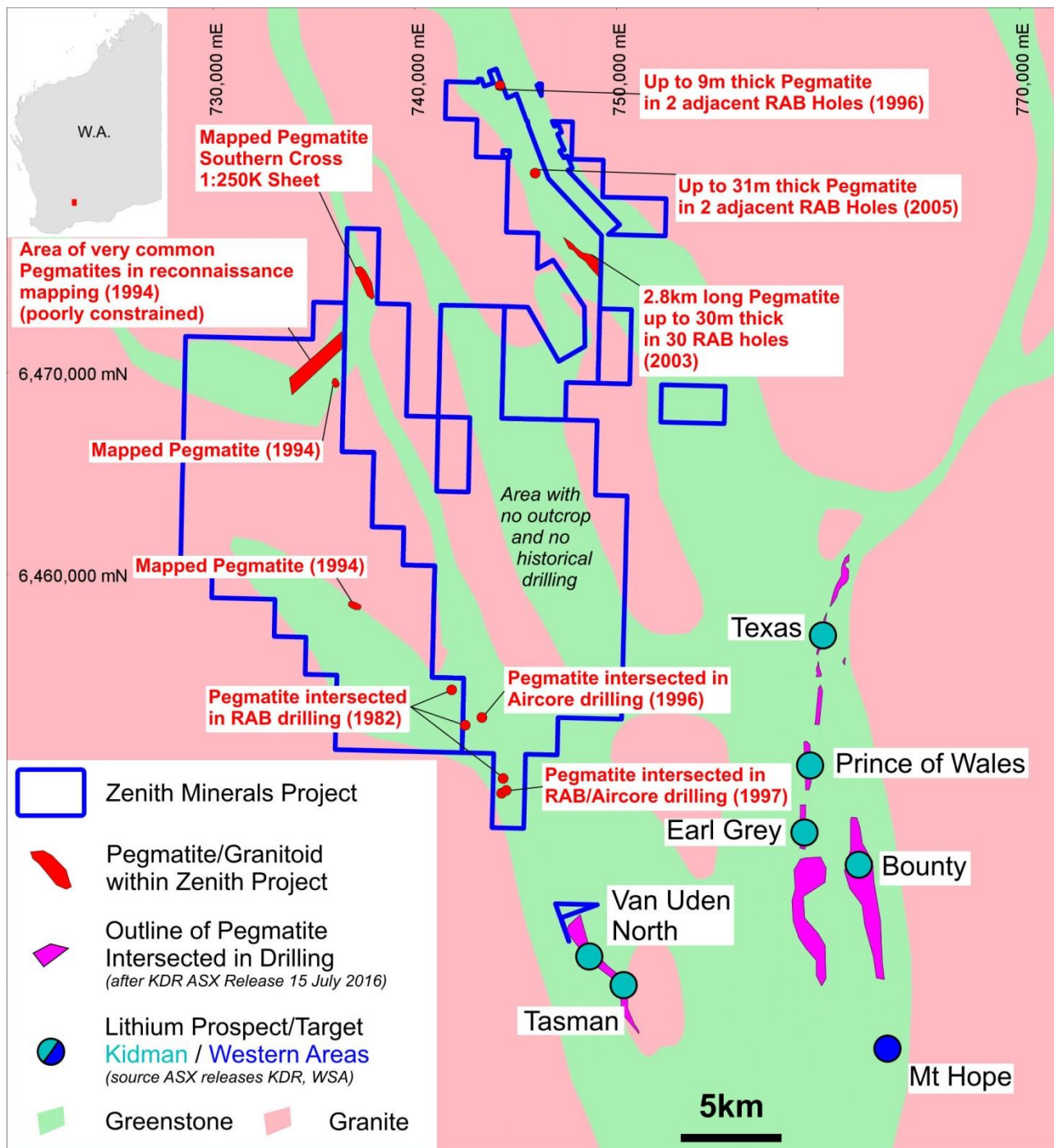


Figure 1: Split Rocks Project Lithium Targets and Tenure



### **Background to Split Rocks Project**

The Split Rocks licences are located 10km northwest of the new Earl Grey lithium pegmatite discovery announced by Kidman Resources Limited (ASX release 15<sup>th</sup> July 2016) where reported drill intercepts include: 52m @ 1.53% Li<sub>2</sub>O and 45m @ 1.81% Li<sub>2</sub>O.

As announced to the ASX on the 25<sup>th</sup> July 2016 and the 27<sup>th</sup> July 2016, Zenith applied for an initial exploration licence at Split Rocks in early March 2016 following the recognition by the Company that the region contained lithium enriched granites, that application was subsequently replaced by four licences over a much expanded area following the announcement by Western Areas Limited (ASX quarterly report released 22<sup>nd</sup> April 2016) of lithium mineralisation in drilling at Mt Hope and South Ironcap in the Forresteria Belt, and Kidman Resources Limited's recent lithium announcements.

### **Competent Persons Statement**

*The information in this report that relates to Exploration Results is based on information compiled by Mr Michael Clifford, who is a Member of the Australian Institute of Geoscientists and an employee of Zenith Minerals Limited. Mr Clifford 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 Clifford consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.*

**11<sup>th</sup> August 2016**

#### **For further information contact:**

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## **About Zenith**

***Zenith is advancing its project portfolio of high-quality, gold, lithium and base metal projects whilst building a superior project base of high-quality advanced exploration assets:***

### **San Domingo Lithium, Arizona USA (ZNC 100%)**

- 9km x 1.5km lithium pegmatite field, initial surface sampling returned: 5m @ 1.97%Li<sub>2</sub>O including 2.4m @ 2.49% Li<sub>2</sub>ORock
- Surface sampling in progress

### **Kavaklitepe Gold Project, Turkey (Teck earning 70%)**

- Recent (2013) grass roots gold discovery in Tethyan Belt
- Large, virtually drill-ready, high order gold soil / IP anomaly >1km strike
- Rock chip traverses to 54m @ 3.33g/t gold, including 21.5m @ 7.2 g/t gold
- Initial drill results: 9 m @ 5.2 g/t Au from surface and 7.8 m @ 7.3 g/t Au from 3.3 m below surface
- Drilling in progress

### **Develin Creek Copper-Zinc-Silver-Gold, QLD (ZNC initial 51%)**

- 3 known VHMS massive sulphide deposits with JORC resources, 50km of strike of host volcanics
- 2011 drilling outside resource; 13.2 metres @ 3.3% copper, 4.0% zinc, 30g/t silver and 0.4g/t gold
- Drilling to extend known deposits, geophysics, geochemistry to detect new targets

### **Mt Minnie Gold Project, WA (ZNC 100%)**

- Major regional fault. Alteration, geochemistry, rock samples to 21.5 g/t Au
- Drill testing planned 2016

### **Earaheedy Manganese Project, WA (ZNC 100%)**

- New manganese province discovered by ZNC, potential DSO drill intersections (+40%Mn)

### **Mt Alexander Iron Ore, WA (ZNC 100%)**

- JORC magnetite Resource 566 Mt @ 30.0% Fe close to West Pilbara coast, 50% of target untested.
- Seeking development partner/ buyer for iron project

### **Other**

- Evaluating new lithium project opportunities