



Targeting Key Global Demanddriven Commodities



David Crook Managing Director





Disclaimer and Competent Person's Statement



- This presentation is provided to you for the sole purpose of providing preliminary background technical, financial and other information to enable you to review the business activities of Pioneer Resources Limited ("Pioneer" or "the Company").
- The material provided to you does not constitute an invitation, solicitation, recommendation or an offer to purchase or subscribe for securities.
- Competent Person
- The information in this report that relates to Exploration Results is based on information supplied to and compiled by Mr David Crook. Mr Crook is a full time employee of Pioneer Resources Limited. Mr Crook is a member of The Australasian Institute of Mining and Metallurgy and the Australian Institute of Geoscientist and has sufficient experience which is relevant to the exploration processes undertaken to qualify as a Competent Person as defined in the 2012 Editions of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'.
- Mr Crook consents to the inclusion of the matters presented in the presentation in the form and context in which they appear.
- Caution Regarding Forward Looking Information
- This document may contain forward looking statements concerning the projects owned by the Company. Statements concerning mining reserves and resources may also be deemed to be forward looking statements in that they involve estimates based on specific assumptions.
- Forward-looking statements are not statements of historical fact and actual events and results may differ materially from those described in the forward looking statements as a result of a variety of risks, uncertainties and other factors. Forward-looking statements are inherently subject to business, economic, competitive, political and social uncertainties and contingencies. Many factors could cause the Company's actual results to differ materially from those expressed or implied in any forward-looking information provided by the Company, or on behalf of, the Company. Such factors include, among other things, risks relating to additional funding requirements, metal prices, exploration, development and operating risks, competition, production risks, regulatory restrictions, including environmental regulation and liability and potential title disputes.
- Forward looking statements in this document are based on the Company's beliefs, opinions and estimates of the Company as of the dates the forward looking statements are made, and no obligation is assumed to update forward looking statements if these beliefs, opinions and estimates should change or to reflect other future developments.
- There can be no assurance that the Company's plans for development of its mineral properties will proceed as currently expected. There can also be no assurance that the Company will be able to confirm the presence of additional mineral deposits, that any mineralisation will prove to be economic or that a mine will successfully be developed on any of the Company's mineral properties. Circumstances or management's estimates or opinions could change. The reader is cautioned not to place undue reliance on forward-looking statements.



Lithium-Caesium-Tantalum

"You won't be able to afford it"

Mine Executive on buying caesium formate

Everyone's talking about Lithium... and they should be "It's the next gasoline."

Brian Colwell



Lithium-Caesium-Tantalum

- ☐ PIONEER DOME
 - ☐ Develop Sinclair Zone Pollucite (Caesium) Resource
 - Next Value Driver will be the Discovery of Spodumene
 - ☐ And/or the discovery of additional Caesium Resources
- CANADA
 - Mavis Lake, Raleigh, Canada (Spodumene): Drilling in January



Kalgoorlie Cobalt - Nickel Pilbara Gold

Corporate Overview





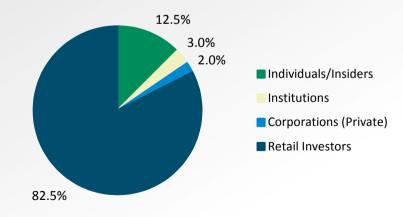
Capital Structure

Share Price (30 August 2017)	\$0.035
Shares Outstanding (m)	1,430
Market Capitalisation (\$m)	\$50.0
Cash (\$m) (approx. 15/11/2017)	\$6.5
Debt (\$m)	0.0
Options Outstanding (listed/unlisted(m))	44.3/32

Board of Directors

Craig McGown	Non-Executive Chairman	
David Crook	Managing Director	
Allan Trench	Non-Executive Director	
Wayne Spilsbury	Non-Executive Director	

Shareholder Analysis



Top 20 Ownership: 16.5%

12 Month Share Price chart



Sinclair Caesium Zone Timetable





- Timetable Aiming for Q1 2018 startup:
 - ☐ Mining Lease granted 13 November 2017
 - Project Plan and Safety Management System: Mid January 2017
 - ☐ Detailed heritage surveys: December 2017
 - Detailed resource drilling and update: December 2017-January 2018
 - Mine design update: further refinement with mining contractor January
 - ☐ Offtake: Following updates finalise agreement
 - ☐ Final Approvals from DMIRS (Mines Department):



Key Assets Along Infrastructure Corridors in WA and Ontario

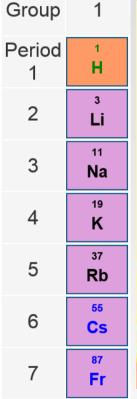


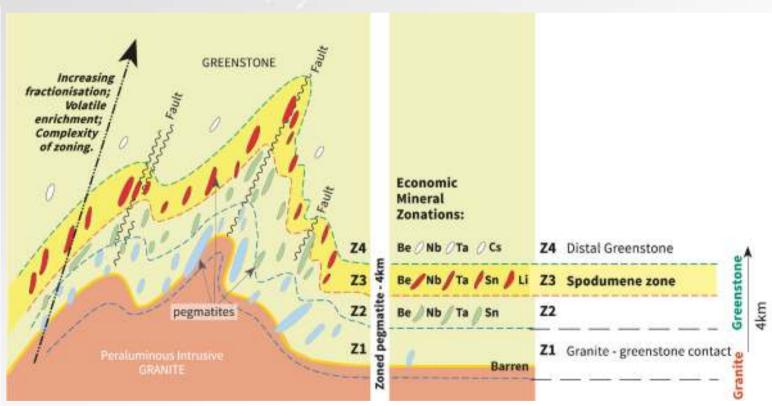
Pioneer Dome Norseman Mavis Lake Ontario Blair Dome Kalgoorlie Kangan Pilbara

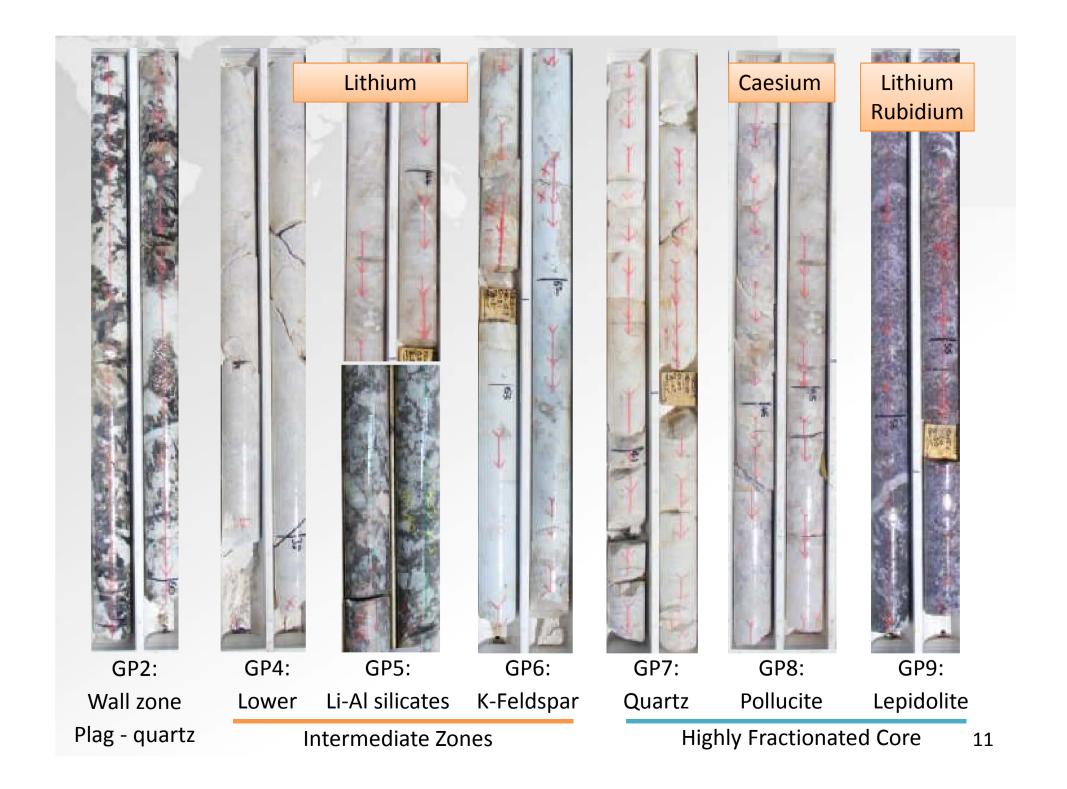


Pioneer Dome: Zonation of Complex LCT Pegmatites





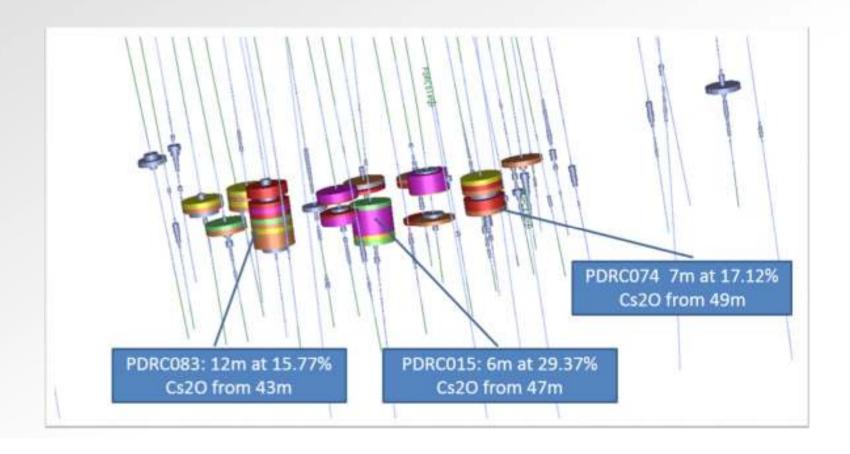




Sinclair Caesium Zone

Pioneer

- Discovery in October 2016,
- Measured Mineral Resource of
 10,500t pollucite grading 17.1% Cs₂O
- The World's 3rd largest known pollucite deposit (pre depletion of others)
- Mining Studies advancing
- Mining Lease granted 13/11/2017
- Offtaker(s) identified



Pollucite - what is it



- Very rare
- forms in highly evolved LCT pegmatite core zone
- one of the last primary igneous minerals to crystallise
- range from fist-size to small pods
- co-exists with petalite, silica (and lepidolite)
- Known at approximately 110 localities worldwide
 - Two locations, Tanco Manitoba and Bikita, Zimbabwe represent 'commercial-sized' pollucite deposits
 - The remaining locations contain only a few grams of the mineral (Teertstra & Černý, 1997).

Caesium Formate

- Pioneer

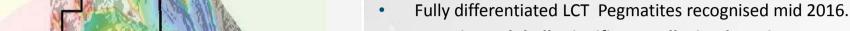
- lubricant in high temperature/high pressure oil and gas drilling,
 - Ensures faster completion times and
 - higher production rates
- The two main producers of Pollucite:
 - TANCO mine, CABOT Canada, produces sufficient ore to generate approximately 8,400bbl CsFm and a lesser amount of Cs chemicals
 - Bikita Mine in Zimbabwe (sporadic, and supplies the Cs chemical market)
- CABOT Specialty Fluids:
 - 2010-2014 (5 years) EBITDA averages
 US\$37 million, or \$312 million between
 2004 and 2016
 - CsFm rented to oil companies including Shell, Total, Statoil, ExxonMobil and BP, used in 30 wells per year (2008-2009)



Pioneer Lithium

- 19 LCT targets identified
- Pioneer
- Only 1 drilled to date

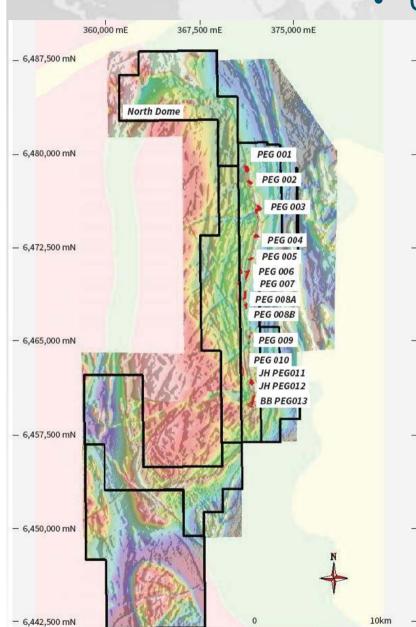




Contains a globally significant pollucite deposit

• Lithium (**Petalite**, **lepidolite**, **minor spodumene**) intersected in drilling. Future focus on **spodumene** targets.

- Lepidolite widespread
 - PEG009 Farm-in agreement with Lepidico (ASX: LPD)
 Gives L-Max® exposure
 - Much Chinese lithium derived from lepidolite
 - **Petalite** with minor spodumene is evident at the Sinclair Caesium Zone.
 - Key drilling intersections include:
 - PDRC067: 11m at 2.63% Li₂O from 44m
 - PDRC085: 6m at 3.66% Li₂O from 47m
 - PDRC114: 19m at 1.77% Li₂O from 39m
 - PDRC115: 17m at 1.48% Li₂O from 35m
 - PDRC116: 20m at 2.48% Li₂O from 36m

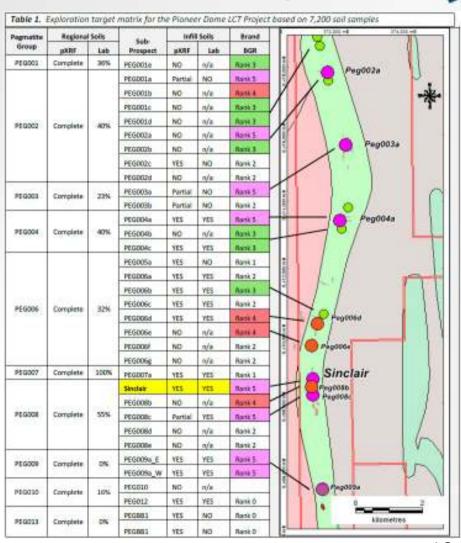


Are we going to find anything more?



- An initial \$3.0m drilling campaign planned.
- EIS (State Funding) award of \$112,050
- Drill ready targets include:
 - PEG003 (1.5km long)
 - PEG004
 - PEG008 (2.5km long)
 - PEG009 (Lepidico funds drilling/exposure to L-Max[®])
- Due to target size drill directly for spodumene; and look for caesium vectors
 - The world's only two other producing caesium mines (Tanco and Bikita) each have multiple caesium zones
- Proprietary geochemical work + geological mapping provides vectors for caesium
 - Rank 5 targets indicate distal environment
 most prospective for caesium deposits
 - Rank 3-4 targets more proximal prospective for lithium

Caesium and Lithium Targets







Canada Spodumene

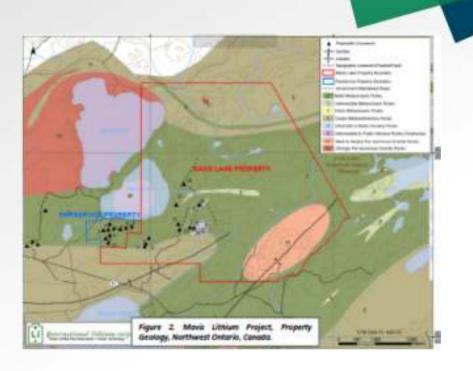
Canada Spodumene

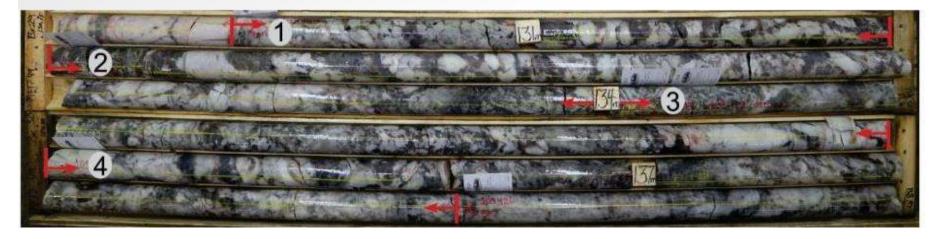
Mavis Lake Project, Canada..

Project Details

- PIO earning up to 80% ownership in the project from International Lithium Corp. (TSXV: ILC)
- Low geological risk most pegmatites have spodumene mineralisation
- Project tenements are adjacent to the Trans Canadian highway and rail





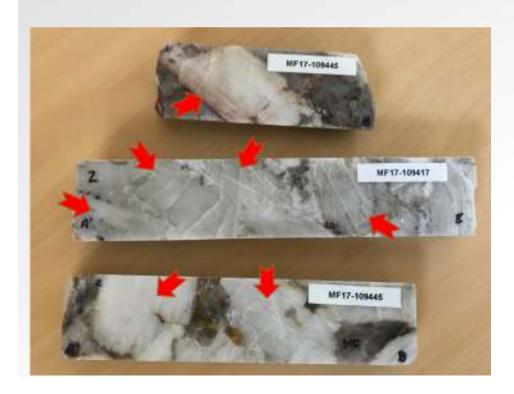


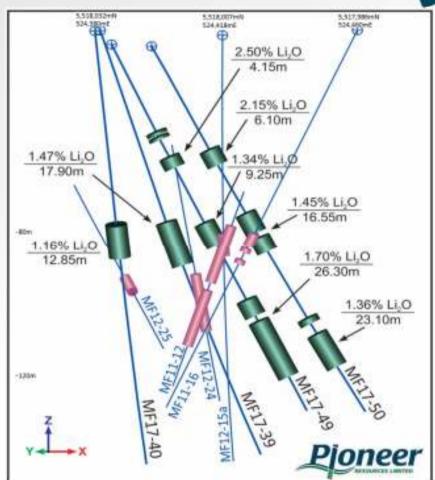
Canada Lithium: Spodumene

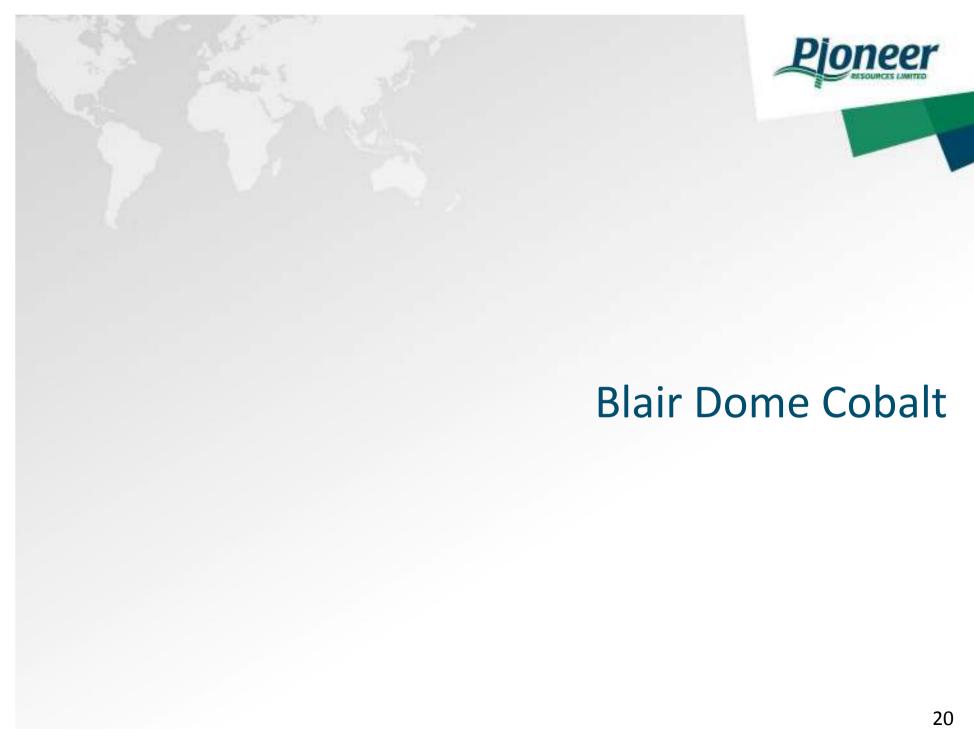
2017 Drilling Results: 3 sheets of pegmatite identified

- Pioneer Pioneer

- MF17-39: 17.90m at 1.47% from 80.00m
- MF17-40: 12.85m at 1.16% from 80.05m;
- MF17-49: 26.30m at 1.70% from 111.9m including 7.70m at 2.97% from 130.5m
- MF17-50: 16.55m at 1.45% from 74.55m and 23.10m at 1.36% from 122.00m



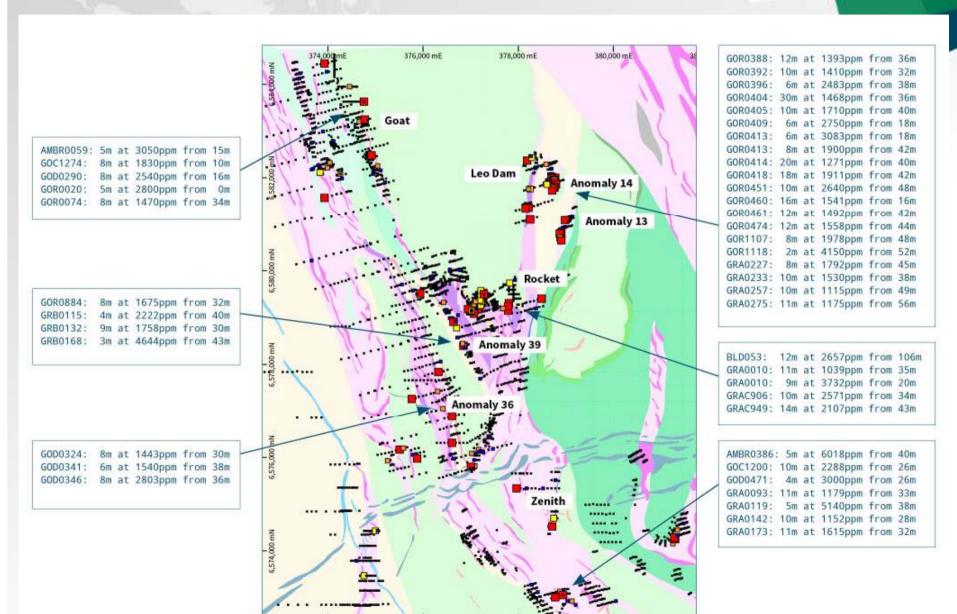




Cobalt - Blair Dome



Prospective for cobalt which has been detected in previous drilling



Drilling to Commence This Week





Rocket Prospect

BLD053: 12m at 2657ppm Co from 106m GRAC949: 14m at 2107ppm Co from 43m GRAC906: 10m at 2571ppm Co from 34m

Anomaly 14 Prospect

GOR0451: 10m at 2640ppm Co from 48m GOR0404: 30m at 1468ppm Co from 36m* GOR0409: 6m at 2750ppm Co from 18m GOR0413: 6m at 3083ppm Co from 18m* GOR0418: 18m at 1911ppm Co from 42m*

Skidman Trend

AMBR0059: 5m at 3050ppm Co from 15m GOD0290: 8m at 2540ppm Co from 16m

Regional

GOD0346: 8m at 2803ppm Co from 36m AMBR0386: 5m at 6018ppm Co from 40m GRA0118: 5m at 5140ppm Co from 38m

Comparable Cobalt Projects

Reported Lateritic Cobalt Deposit Size

Company	Tonnes	Grade*	Location	
	(mt)	Co	Location	
Ardea	805	500 ppm	Kalgoorlia MA	
includes	64	1300 ppm	Kalgoorlie, WA	
CleanTeq	109	1000 ppm	Syerston, NSW	
GME	108	600 ppm	Leonora, WA	
Conico	32	1200 ppm	Norseman, WA	
Platina	9	1500 ppm	Owendale, NSW	
Augur	16	500 ppm	Homeville, NSW	
Cougar	10	700 ppm	Leonora, WA	

Grades appropriately rounded from reported Co %



Kangan Gold







Pioneer's Geological Consultants are on site

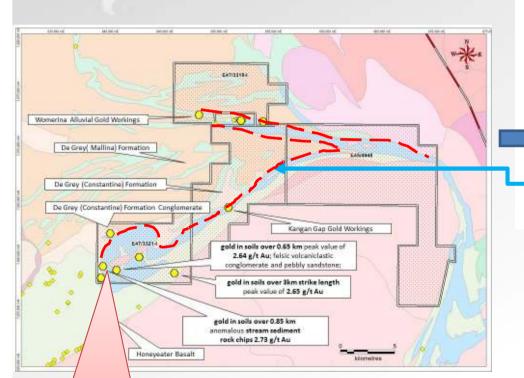
Visited a small outcrop of Mt Roe Basalt mapped by GSWA. Initial observations include:

- polymictic conglomerate identified in the field at this location over an 800m strike length
- Adjacent anomalous soil geochemistry and rock chips recorded in Technical Reports by previous explorers.

Kangan Gold

Exploration Concept





Witwatersrand Basin tectono-stratigraphy

(after Nelson et al., 1992, 1999; Martin et al., 1998; Thorne and

Trendall, 2001); From NI 43-101 Technical Resource Report Beatons Creek Gold Project Pilbara Region Australia (Novo Resources Corp, 31 August 2015)

Comparison between Hammersley Basin and

Prior photographs from here



Value Proposition



- Develop Sinclair Zone Pollucite (Caesium) Resource
- ☐ Next Value Driver will be the Discovery of Spodumene
 - ☐ Pioneer Dome WA: Drill Lithium (Spodumene and Lepidolite) Targets
 - Watch for Caesium vectors and drill for Pollucite
- ☐ In Addition.....
 - ☐ Mavis Lake, Raleigh, Canada: Drill Lithium (Spodumene) targets in winter
 - ☐ Blair Dome / Golden Ridge: Drilling this week
 - ☐ The Kangan Gold Project, and exposure to the Pilbara (Wits2) concept.

References





References

- Blair Dome: Refer Company's announcements to ASX dated 18 November 2013 (Blair Resource Estimate), May 2014, 27
 January 2015, 18 May 2015, 20 July 2015, 13 April 2017.
- Mavis Lake and Raleigh: Refer Company's announcements to ASX dated 15 March 2016, 20 April 2016, 13 July 2016, 26 July 2016, 12 October 2016, 2 December 2016, 7, 8 February 2017, 10 March 2017, 11 April 2017
- Pioneer Dome: Refer Company's announcements to ASX 19 May 2016, 27 July 2016, 28 August 2016, 1 September 2016, 4
 October 2016, 17 October 2016, 14 November 2016, 2 December 2016, 13 December 2016, 13 January 2017, 24 January 2017, 23 February 2017, 20 March 2017, 22 March 2017, 20 June 2017, 9 October 2017, 30 October 2017, 2 November 2017
- Kangan: 6 October 2017, 24 October 2017
- Černý, P. and Ercit, T.S. (2005): The Classification of Granitic Pegmatites Revisited. *The Canadian Mineralogist Vol. 43, pp. 2005-2026.*
- Selway, J.B., Breaks, F.W. and Tindle, A.G. (2005): A Review Of Rare-Element (Li-Cs-Ta) Pegmatite Exploration Techniques For The Superior Province, Canada And Large Worldwide Tantalum Deposits. *Exploration and Mining Geology, Vol 14, Nos 1-4 pp, 1-30*.
- London, D. (2008): Pegmatites. The Canadian Mineralogist Special Publication 10.
- Plus Company quarterly reports.

The Company it is not aware of any new information or data that materially affects the information included in this Report



Contact us

- +61 8 9322 6974
- pioneer@pioresources.com.au
- 1 21 Ord Street, West Perth WA 6005
- PO Box 1787, West Perth WA 6872

www.pioresources.com.au