

3	28	79	55	27
Li	Ni	Au	Cs	Co
6.941	58.69	196.967	132.905	58.933



Targeting Key Global Demand-driven Commodities

Investor Presentation
August 2017

David Crook
Managing Director

ASX: PIO



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.

LCT Pegmatite Strategy

“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

Company Objectives

- ❑ ***Develop Sinclair Zone Pollucite (Caesium) Resource during 2017***

- ❑ ***Next Value Driver will be the Discovery of Spodumene***

- ❑ Pioneer Dome WA: - Drill Lithium (Spodumene and Lepidolite) Targets

- ❑ ***In Addition.....***

- ❑ Mavis Lake, Raleigh, Canada: - Drill Lithium (Spodumene) Targets:

- ❑ Blair Dome / Golden Ridge: - Consider our Cobalt strategy:

- ❑ External funding partnerships: Acra Gold JV (WA) Northern Star (ASX: NST)

Sinclair Caesium Zone Timetable



☐ ***Timetable: Mining Approvals in Place Q3 2017***

- ☐ Meetings and dialogue with Native Title Holders and representatives since Jan 2017, and terms of an Ancillary Agreement advancing
- ☐ Mining Lease pegged Feb 2017, granted when Ancillary Agreement/ State Deed complete
- ☐ Project Plan and Safety Management System: lodged
- ☐ Mine design complete: further refinement with mining contractor
- ☐ Bulk sample: test beneficiation of mineralisation using optical sorter
- ☐ Logistics: transport and shipping solution identified, subject to offtake party

☐ ***Offtake:***

- ☐ Expressions of interest received in June 2017, being refined now

☐ ***Final Feasibility:***

- ☐ ***Mining costs + Logistics + NT financial obligations + royalties and taxes***

Finding the next Caesium and Lithium Deposits

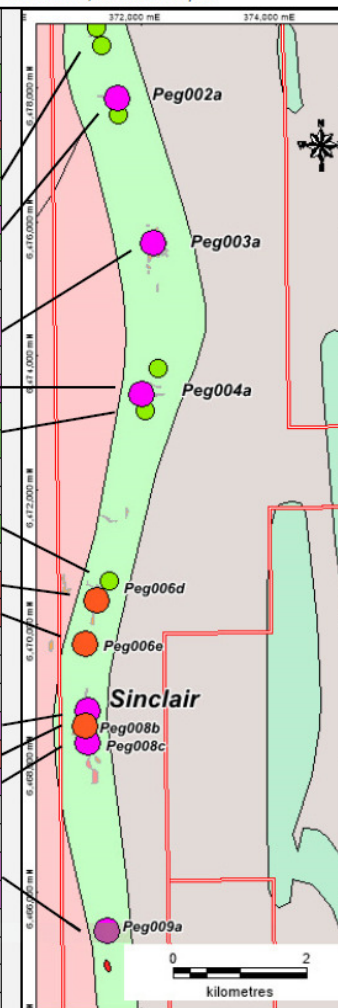
Caesium and Lithium Prospectivity

- An initial \$3.0m drilling campaign planned. Drill ready targets include:
 - PEG003 a (1.5km long)
 - PEG004 a, b, c
 - PEG008 b and c
 - PEG009 (Lepidico funds drilling)
- Due to target size – drill directly for spodumene; and look for caesium vectors
- Fertility demonstrated, further deposits possible
 - The world's only two other producing caesium mines (Tanco and Bikita) each have multiple caesium zones of varying sizes
- Proprietary geochemical work + geological mapping provides vectors to where caesium may occur
 - Rank 5 targets indicate distal environment – most prospective for caesium deposits
 - Rank 3-5 targets – more proximal - prospective for lithium

Caesium and Lithium Targets

Table 1. Exploration target matrix for the Pioneer Dome LCT Project based on 7,200 soil samples

Pegmatite Group	Regional Soils		Sub-Prospect	Infill Soils		Brand
	pXRF	Lab		pXRF	Lab	
PEG001	Complete	36%	PEG001e	NO	n/a	Rank 3
PEG002	Complete	40%	PEG001a	Partial	NO	Rank 5
			PEG001b	NO	n/a	Rank 4
			PEG001c	NO	n/a	Rank 3
			PEG001d	NO	n/a	Rank 3
			PEG002a	NO	n/a	Rank 5
			PEG002b	NO	n/a	Rank 3
			PEG002c	YES	NO	Rank 2
PEG003	Complete	23%	PEG002d	NO	n/a	Rank 2
			PEG003a	Partial	NO	Rank 5
PEG004	Complete	40%	PEG003b	Partial	NO	Rank 2
			PEG004a	YES	YES	Rank 5
			PEG004b	NO	n/a	Rank 3
PEG006	Complete	32%	PEG004c	YES	YES	Rank 3
			PEG005a	YES	NO	Rank 1
			PEG006a	YES	YES	Rank 2
			PEG006b	YES	YES	Rank 3
			PEG006c	YES	YES	Rank 2
			PEG006d	YES	YES	Rank 4
			PEG006e	NO	n/a	Rank 4
			PEG006f	NO	n/a	Rank 2
			PEG006g	NO	n/a	Rank 2
PEG007	Complete	100%	PEG007a	YES	YES	Rank 1
PEG008	Complete	55%	Sinclair	YES	YES	Rank 5
			PEG008b	NO	n/a	Rank 4
			PEG008c	Partial	YES	Rank 5
			PEG008d	NO	n/a	Rank 2
			PEG008e	NO	n/a	Rank 2
PEG009	Complete	0%	PEG009a_E	YES	YES	Rank 5
PEG010	Complete	16%	PEG009a_W	YES	YES	Rank 5
			PEG010	NO	n/a	
PEG013	Complete	0%	PEG012	YES	YES	Rank 0
			PEG013	YES	NO	Rank 0
PEG013	Complete	0%	PEG013	YES	NO	Rank 0
			PEG013	YES	NO	Rank 0

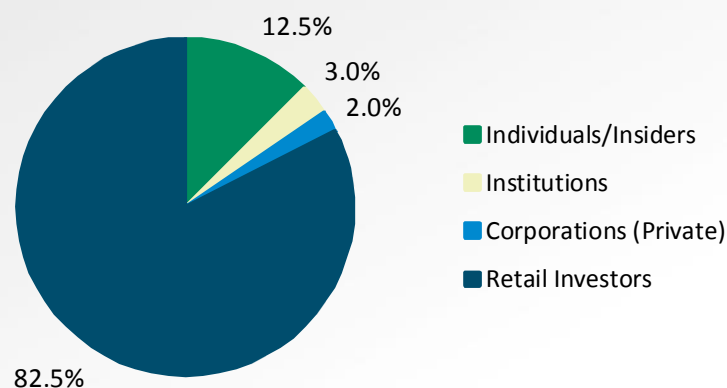


Corporate Overview

Capital Structure

Share Price (10 May 2017)	\$0.017
Shares Outstanding (m)	1,037.7
Market Capitalisation (\$m)	\$17.6
Cash (\$m) (end of June)	\$2.2
Debt (\$m)	0.0
Options Outstanding (listed/unlisted(m))	44.3/55.3

Shareholder Analysis

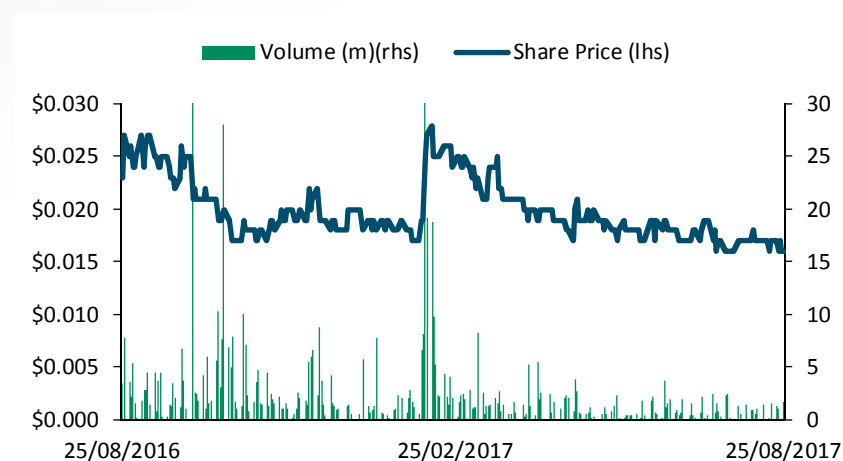


Top 20 Ownership: 16.5%

Board of Directors

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

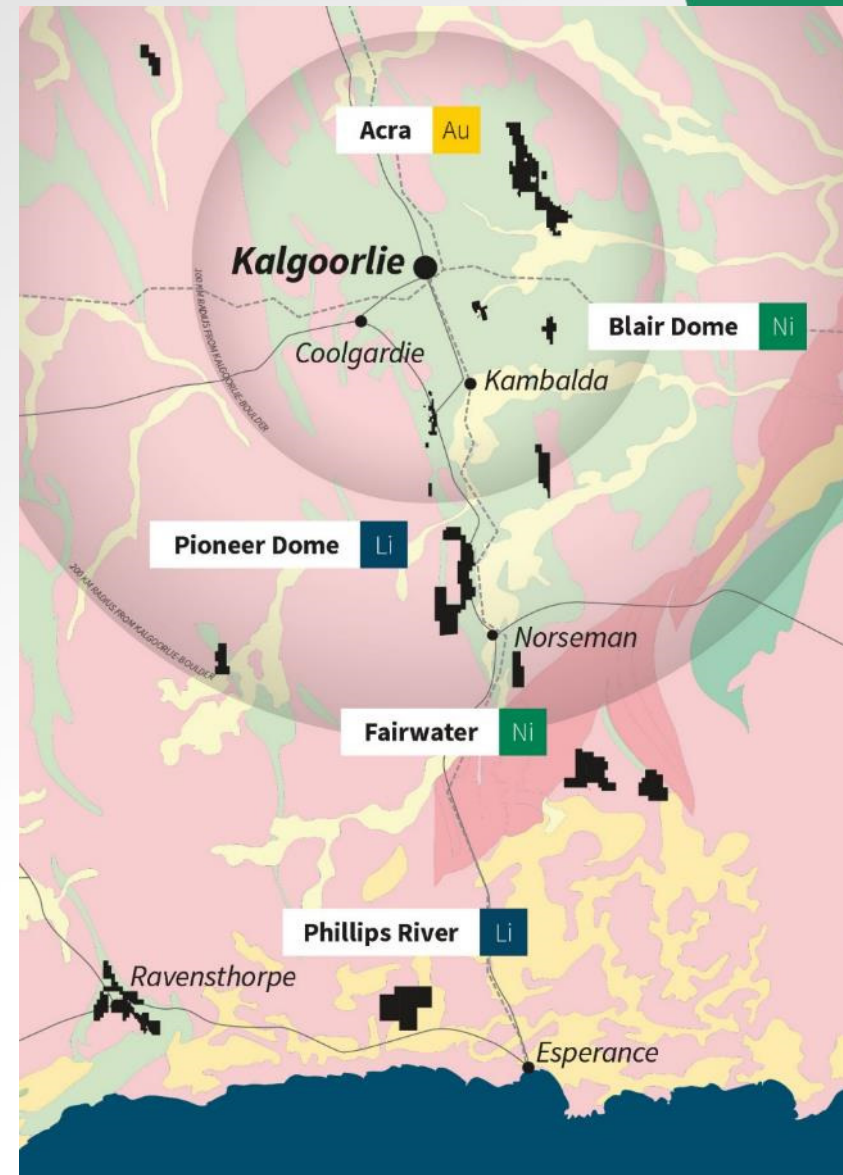
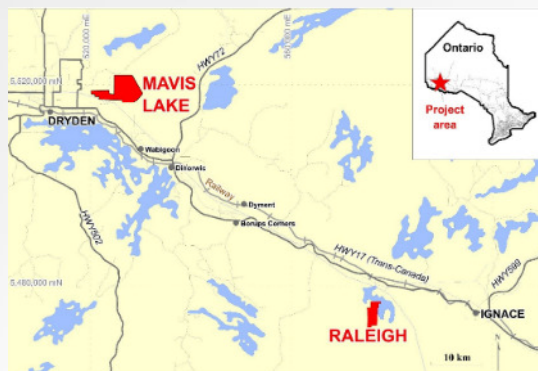
12 Month Share Price chart



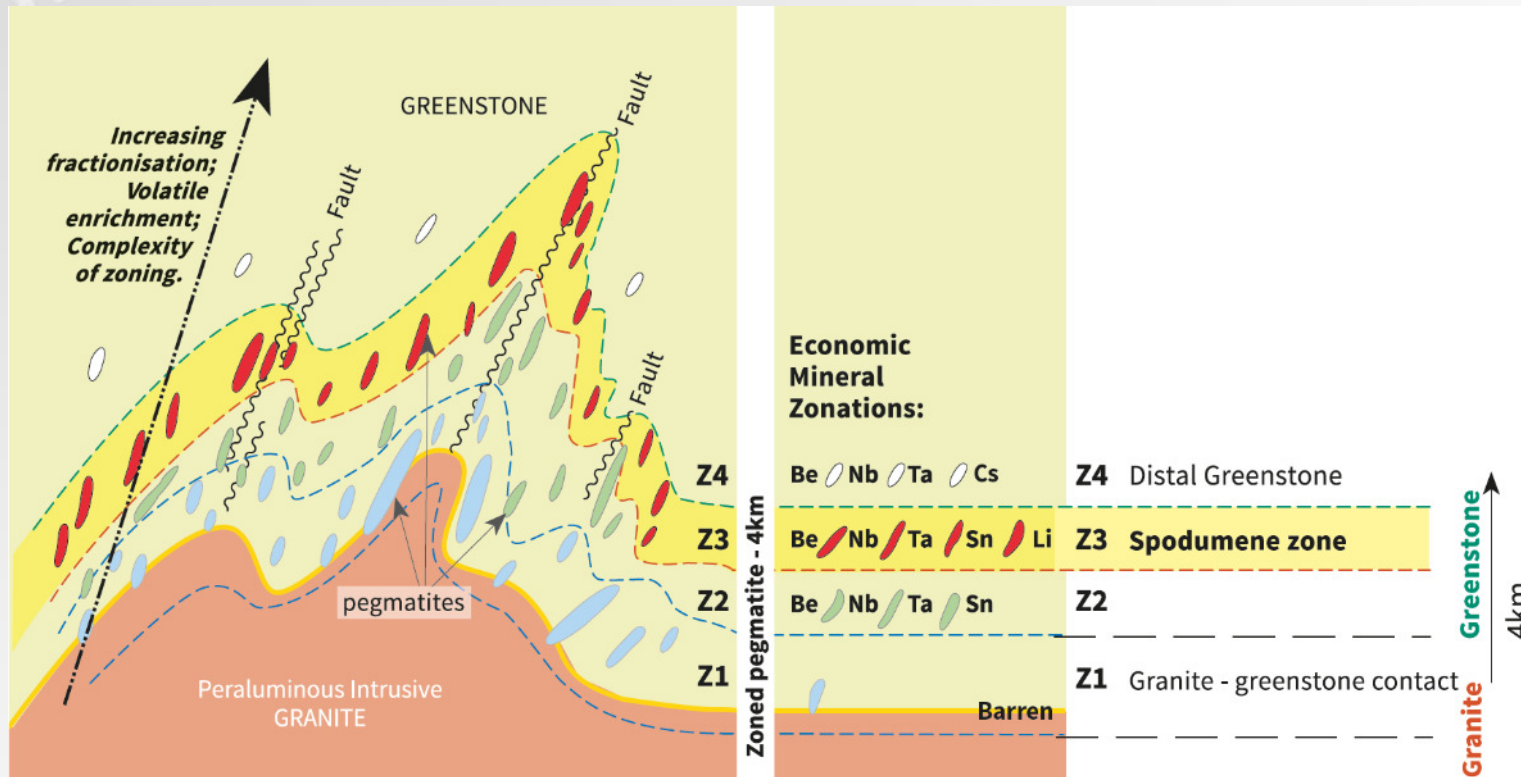
Operating Strategy

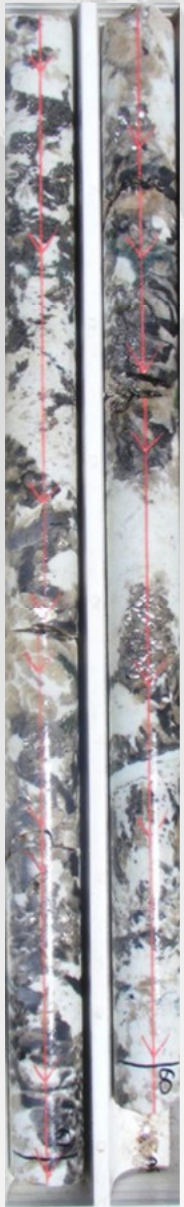
Key Assets Along Infrastructure Corridors

Project	Location	Commodity	Ownership	Status
Pioneer Dome	Eastern Goldfields	Caesium	100%	Mine Plan in development
Pioneer Dome	Eastern Goldfields	Lithium, Tantalum	100%	Widespread lepidolite Spodumene indications Tantalum indications
Mavis Raleigh	Ontario	Lithium	Earning 80%	Spodumene intersected in Pioneer Drilling
Blair Dome	Eastern Goldfields	Cobalt/NiS	100%	Recently recognised prospectivity for Cobalt
Acra	Kalgoorlie	Gold	80%	NST farming-in to project (up to 75%)



First, some geology: Zonation of Complex LCT Pegmatites





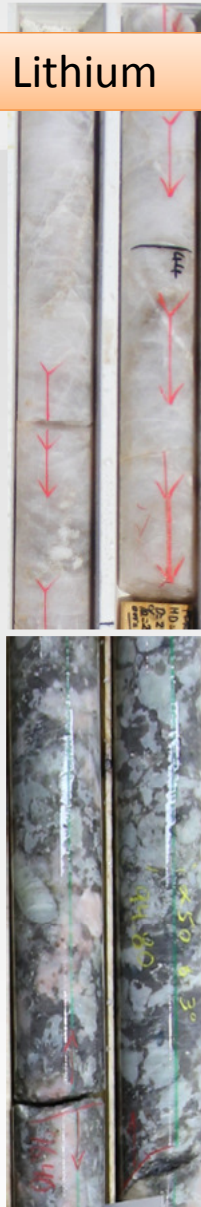
GP2:

Wall zone
Plag - quartz



GP4:

Lower



GP5:

Li-Al silicates



GP6:

K-Feldspar



GP7:

Quartz



GP8:

Pollucite



GP9:

Lepidolite

Lithium

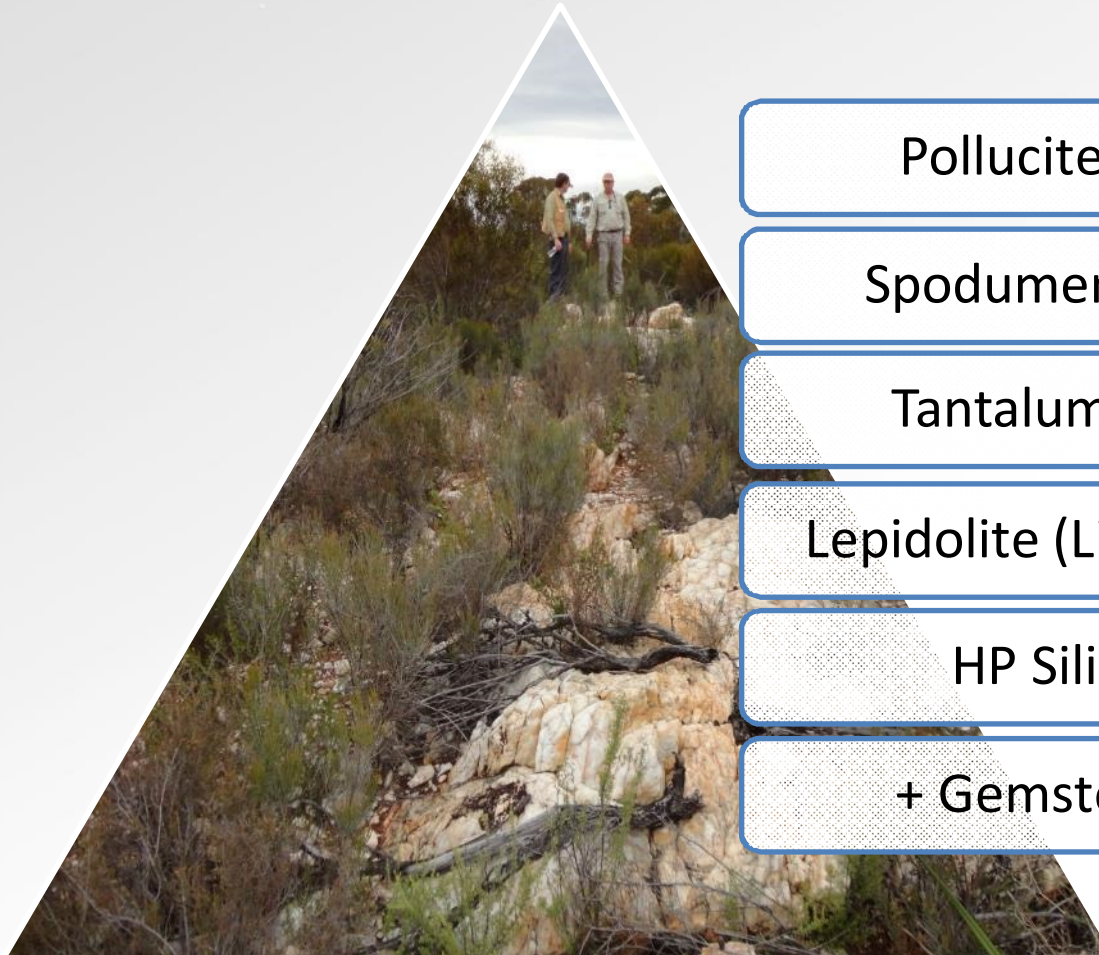
Caesium

Lithium
Rubidium

Intermediate Zones

Highly Fractionated Core

This gives us a list of Saleable Products



Pollucite (Cs)

Spodumene (Li)

Tantalum (Ta)

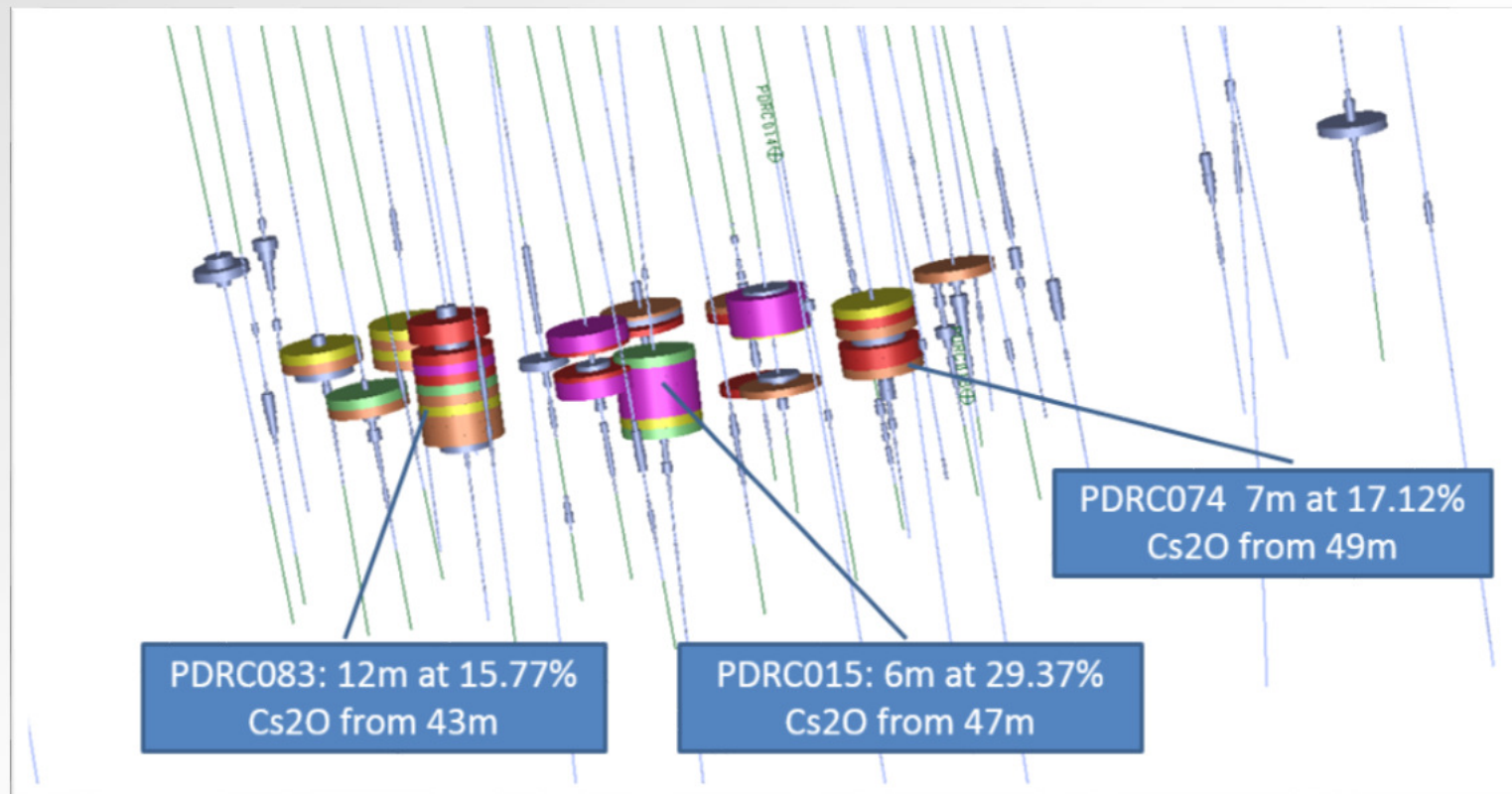
Lepidolite (Li, Cs, Rb)

HP Silica

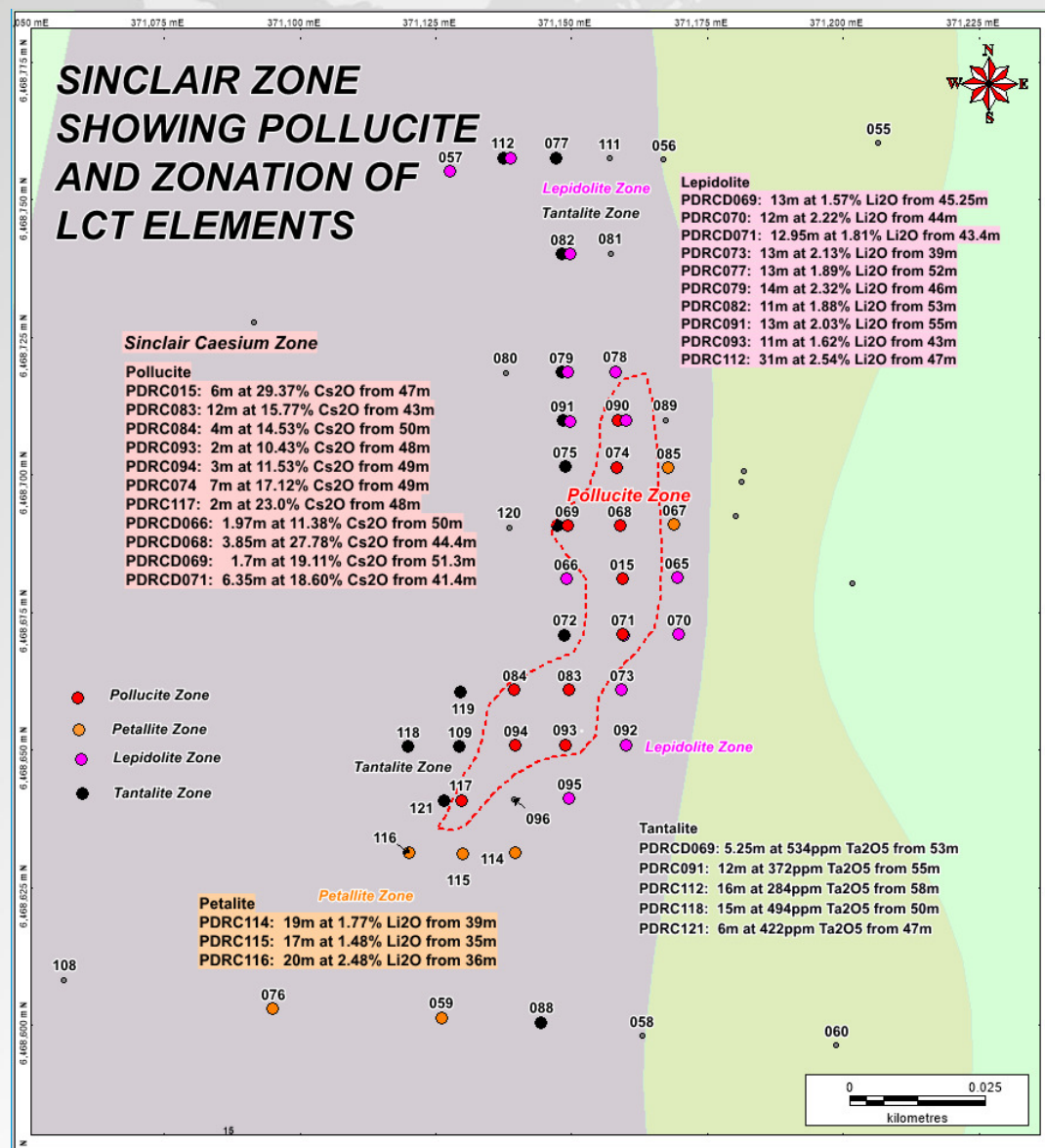
+ Gemstones

Sinclair Caesium Zone

- **Discovery in October 2016,**
- Measured Mineral Resource of **10,500t pollucite grading 17.1% Cs_2O**
- **The World's 3rd largest known pollucite deposit (pre-depletion of others)**
- Mining Studies advancing
- Underground mine envisaged
- Native Title discussions are well advanced
- Offtake keenly sought by global chemical companies



Sinclair Caesium Zone



Lepidolite/tantalite

- LCT mineral zonation clearly evident at the Sinclair Zone***

Pollucite

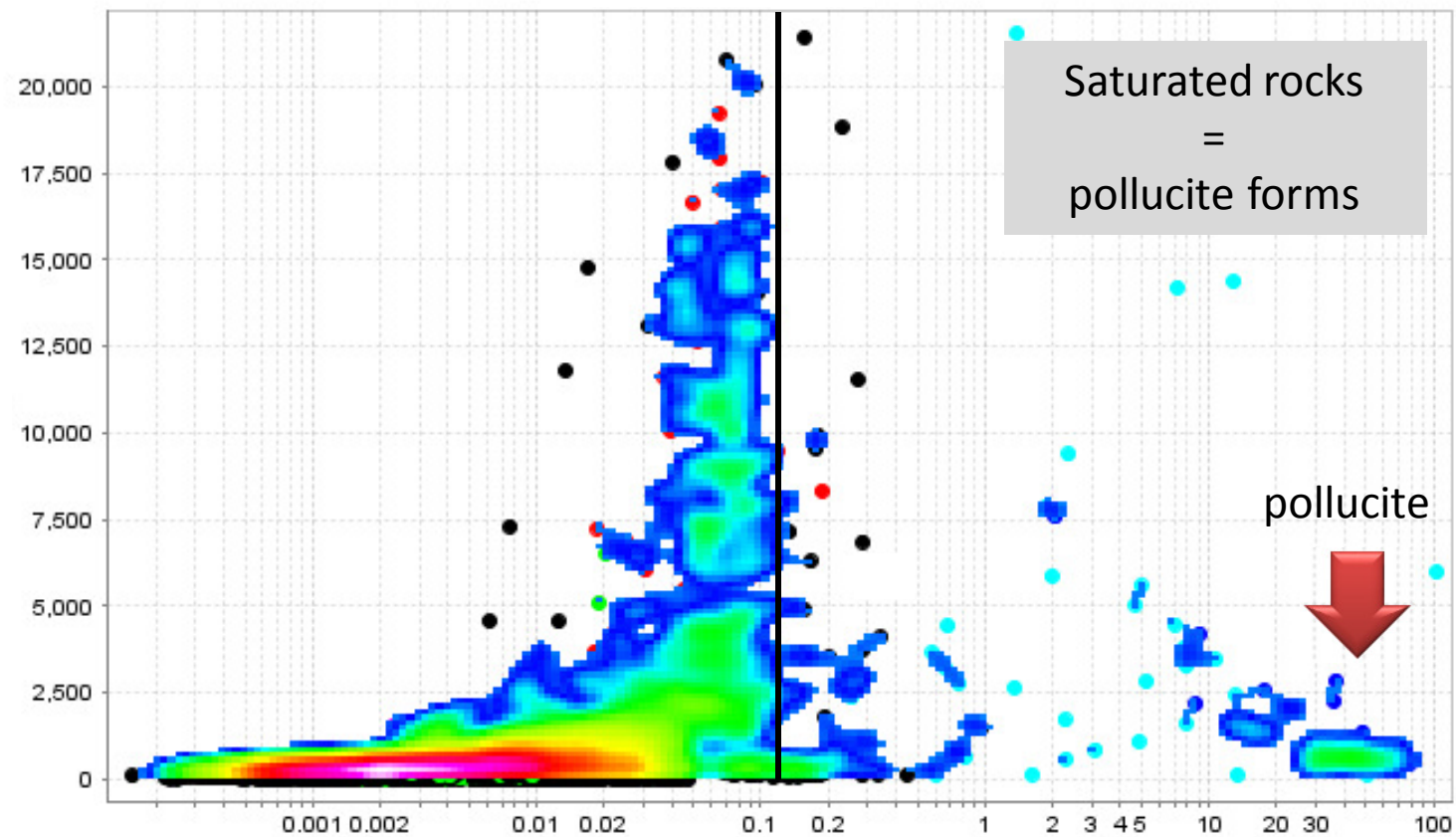
Petalite

Caesium Formate

- Caesium Formate (CsFm) brine:
 - 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)

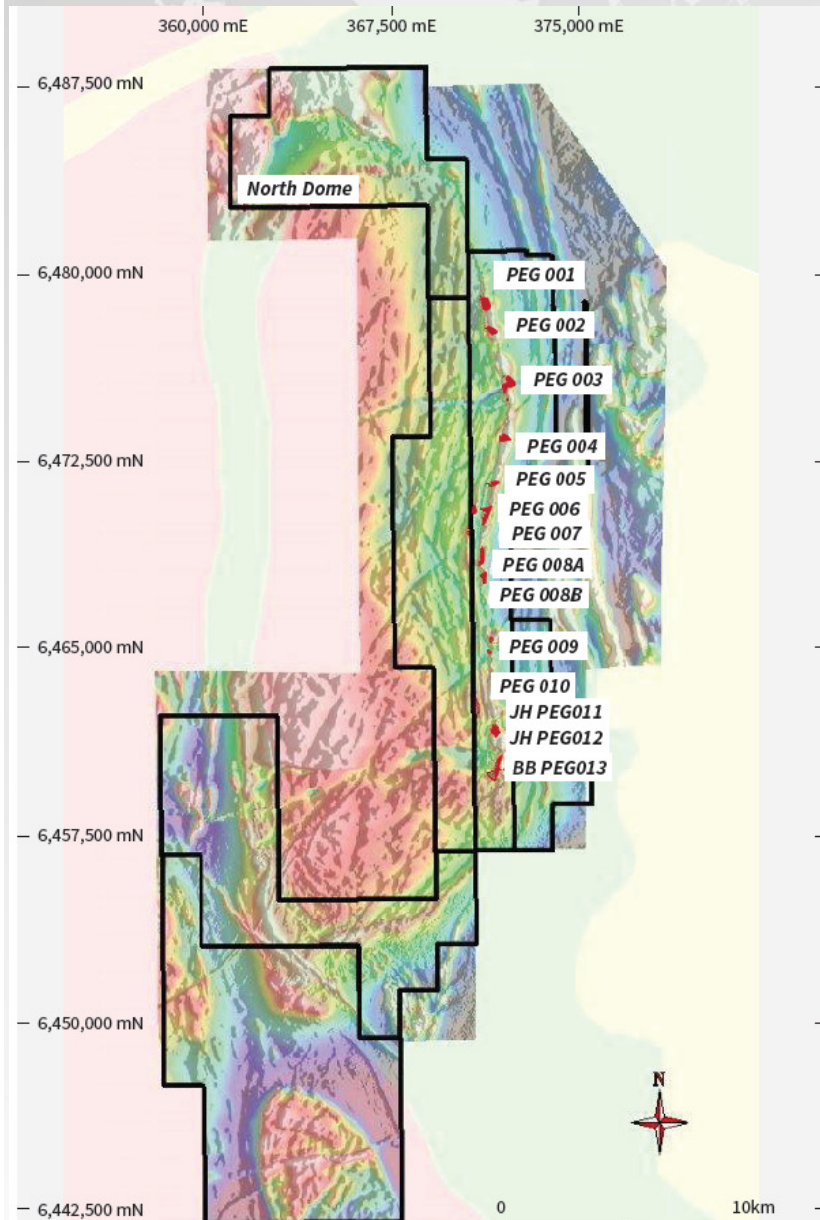


Finding the Next Caesium Deposit



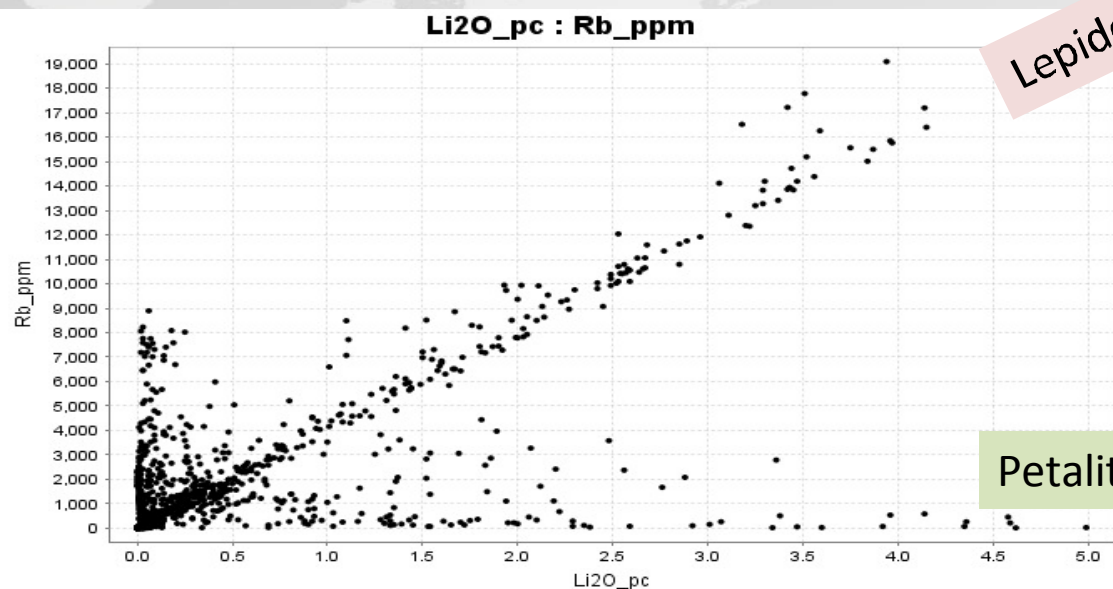
Using smart geochemistry

Pioneer Lithium



- Fully differentiated LCT Pegmatites recognised mid 2016.
- **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
- Key infrastructure in place with road, rail, gas and water all passing through the tenements
- **19 LCT targets identified**
- **Only 1 drilled to date**

Pioneer Lithium



Lepidolite

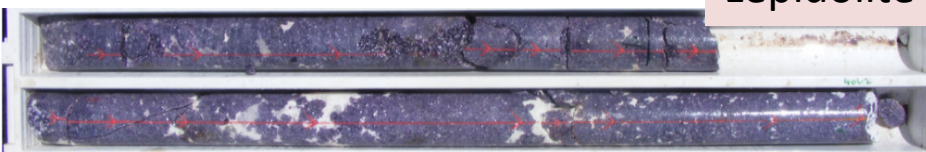
Petalite - Spodumene

- **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
- **Lepidico** can earn 75% interest in PEG009 only and provides exposure to encouraging L-Max® technology
 - PDRC070: 12m at 2.22% Li₂O from 44m
 - PDRC073: 13m at 2.13% Li₂O from 39m
 - PDRC072: 8.65m at 3.01% Li₂O from 40m
 - PDRC079: 14m at 2.32% Li₂O from 46m
 - PDRC090: 8m at 2.62% Li₂O from 51m
 - PDRC091: 13m at 2.03% Li₂O from 55m

Petalite



Lepidolite



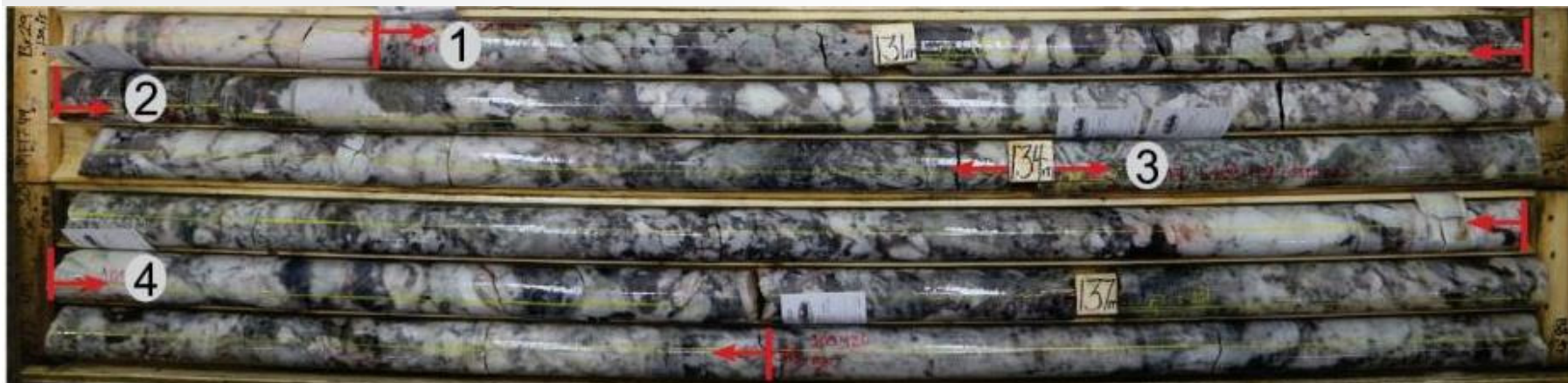
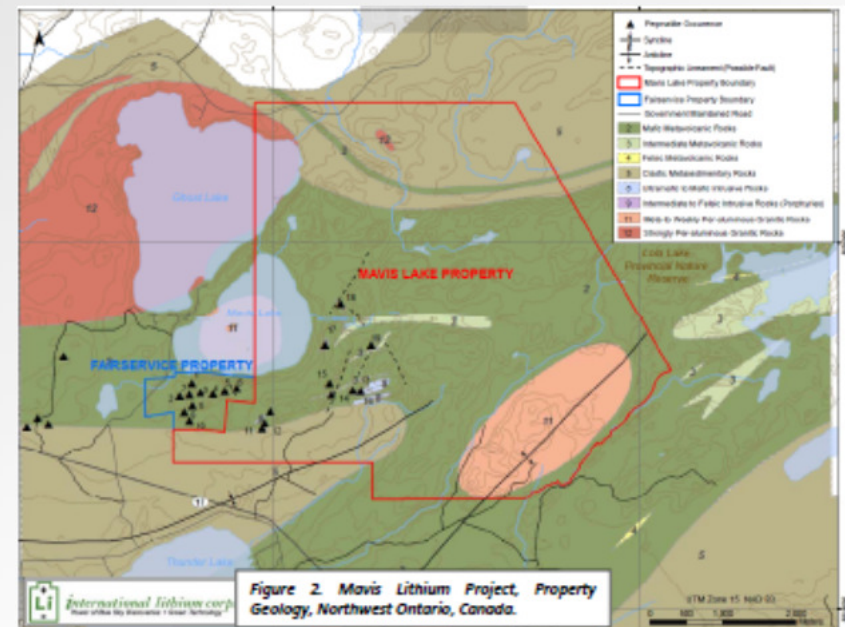
Canada Lithium

Mavis Lake Project, Canada. Spodumene.



Project Details

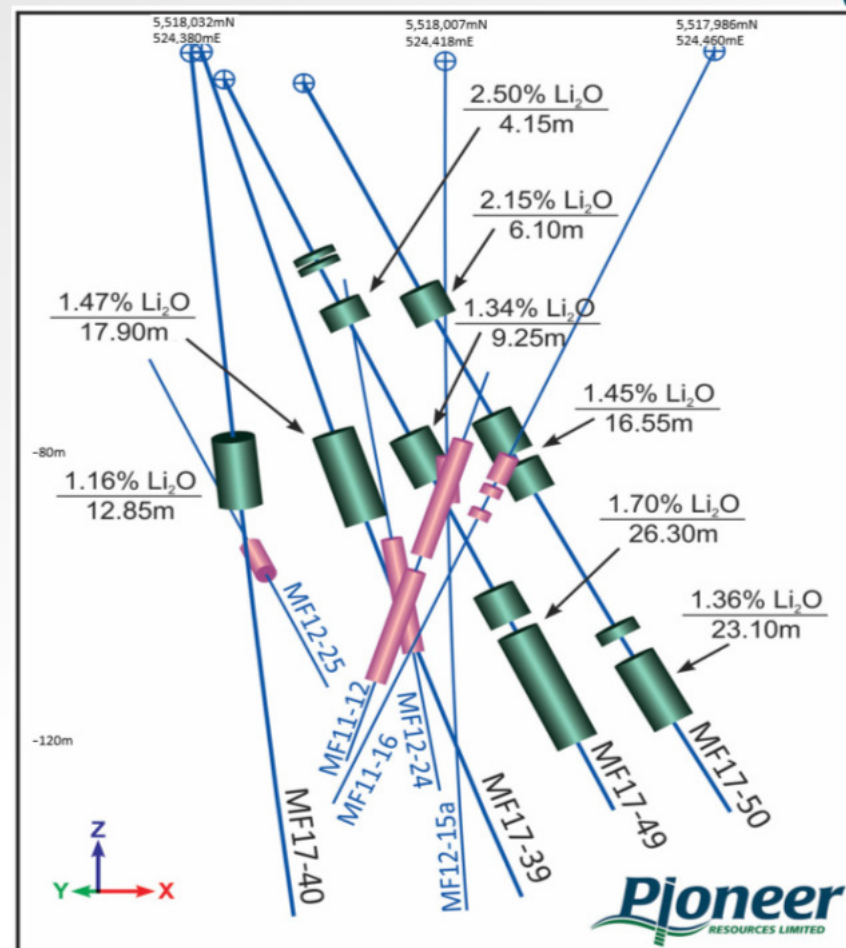
- PIO earning up to 80% ownership in the project from International Lithium Corp. (TSXV: ILC)
- Low geological risk – most pegmatites have spodumene mineralisation
- Project tenements are adjacent to the Trans Canadian highway and rail



Canada Lithium: Spodumene

2017 Drilling Results: 3 sheets of pegmatite identified

- 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



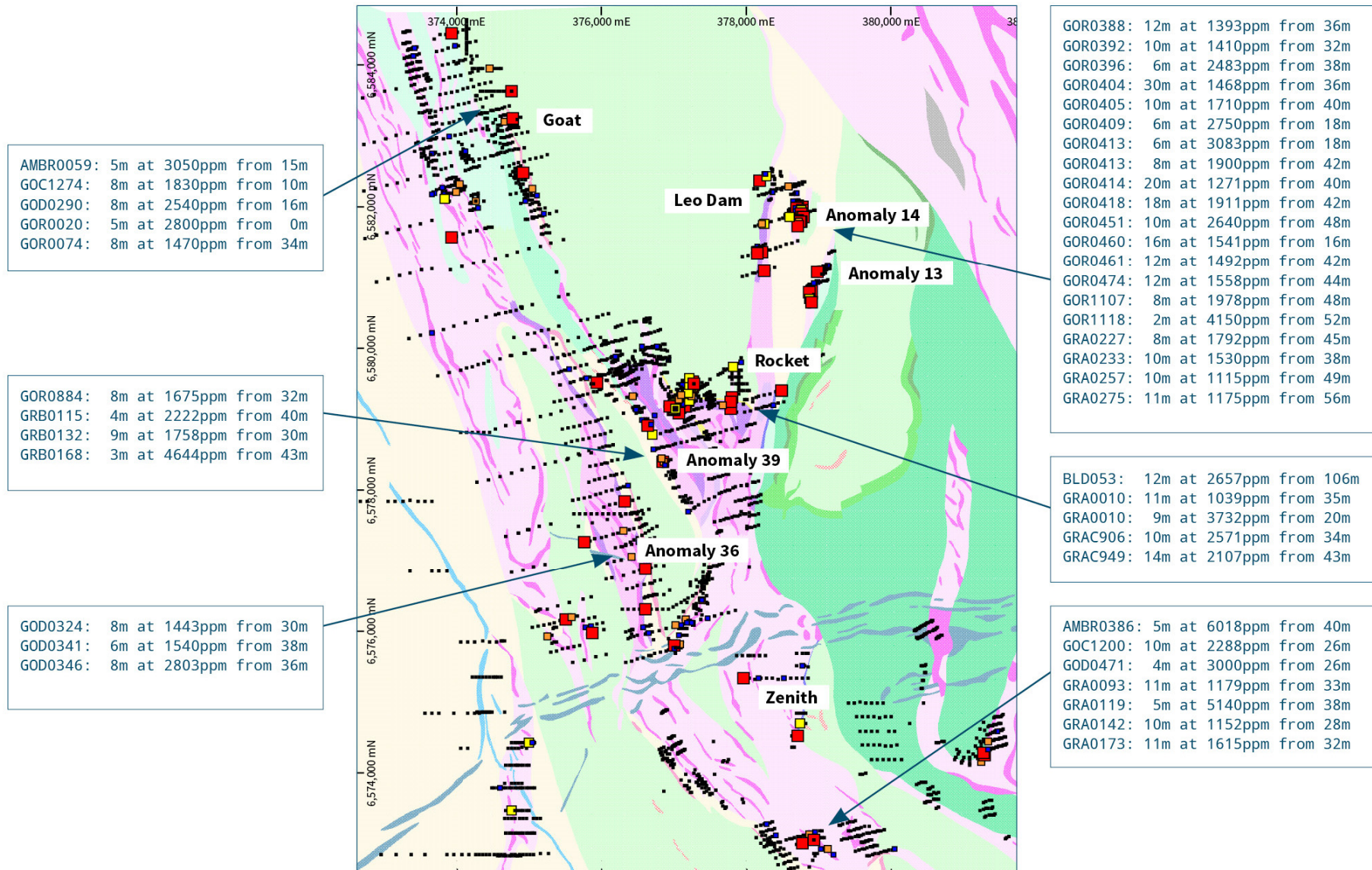
Pollucite for Near-Term Cash Lithium to Grow the Company

Company	Market Cap
Argonaut	\$ 8
International Lithium (TSX)	\$ 8
Ardiden	\$ 15
Pioneer	\$ 17
Dakota	\$ 21
Lepidico	\$ 25
Lithium Aust	\$ 36
Tawana	\$ 93
Neo Metals	\$ 155
Kidman	\$ 215
Altura	\$ 266
Pilbara	\$ 583
Orocobre	\$ 691

Other Drivers

Cobalt – Blair Dome

Prospective for cobalt which has been detected in previous drilling



How Does it Rate?

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	
Ardea	805	500 ppm	Kalgoorlie, WA
Inc	50	1200 ppm	
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

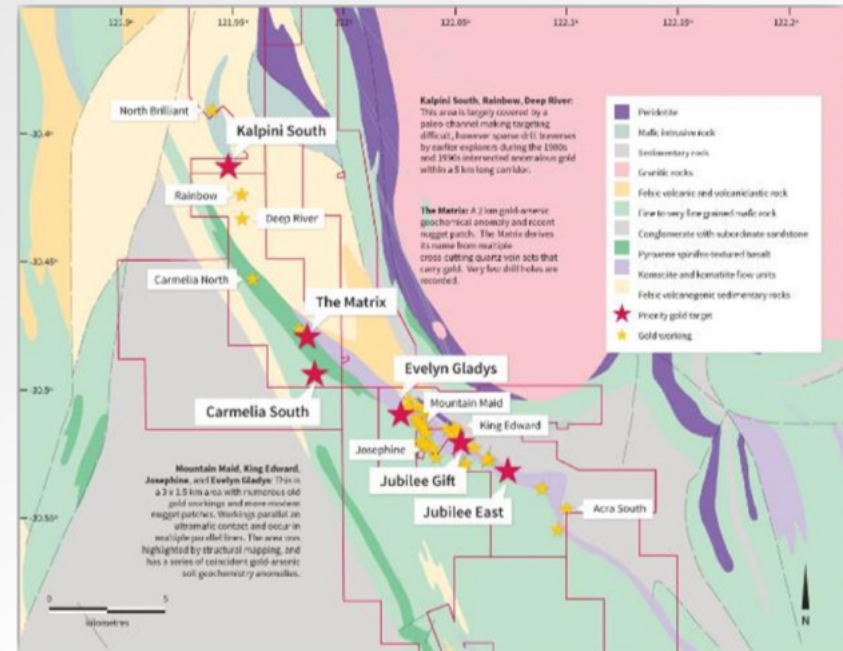
Grades appropriately rounded from reported Co %

Acra Gold

Project Details

- PIO ownership 80%
 - Farm-out agreement with Northern Star (ASX: NST)
 - \$3m spend within 3 years will increase NST ownership to 75%
 - Pioneer free carried until the JV secures DMP approval of a mining proposal
- Tenement area covers 370 km²
- Gold workings, nugget patches and soil geochemistry indicates a gold target zone at least 20km long
- Drilling at targets at Acra South, Jubilee Gift and Jubilee East are the main focus for advanced stage exploration
- Simultaneous early stage, intensive regional exploration campaign on E27/548

Tenement Map



To Finish

Value Proposition

- ❑ ***Develop Sinclair Zone Pollucite (Caesium) Resource during 2017***

- ❑ ***Next Value Driver will be the Discovery of Spodumene***

 - ❑ Pioneer Dome WA: - Drill Lithium (Spodumene and Lepidolite) Targets

- ❑ ***In Addition.....***

 - ❑ Mavis Lake, Raleigh, Canada: - Drill Lithium (Spodumene) Targets:

 - ❑ Blair Dome / Golden Ridge: - Consider our Cobalt strategy:

 - ❑ External funding partnerships: Acra Gold JV (WA) Northern Star (ASX: NST)

References



- **References**
- Acra: Refer Company's announcements to ASX dated 16 April 2014, 22 October 2014, 26 June 2015, 6 October, 2015, 18 December, 2105, 15 February 2016, 21 October 2016
- Blair: 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 2016
- 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



21 Ord Street, West Perth WA 6005



PO Box 1787, West Perth WA 6872

www.pioresources.com.au