

3	28	79		
Li	Ni	Au	Cs	Co
6.941	58.69	196.967		



Targeting Key Global Demand-driven Commodities

Investor Presentation
May 2017

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Managing Director

ASX: PIO





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Company Overview

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Company Strategy

- To hold a portfolio of projects in Australia and Canada (Tier 1 jurisdictions) which are prospective for key global demand-drive commodities
- Pioneer's current focus is to:
 - Develop the Sinclair Zone Caesium Resource : Pioneer Dome
 - Drill Lithium (Spodumene and Lepidolite) Targets: Pioneer Dome
 - Drill Lithium (Spodumene) Targets: Mavis Lake, Raleigh, Canada
 - Develop Cobalt strategy: Golden Ridge greater project area
 - Progressively explore for Nickel Sulphides: Blair Mine
 - Externally Fund Gold exploration: Acra (WA) Northern Star (ASX: NST)

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Key Investment Highlights



- Portfolio of recognised high potential assets in tier 1 jurisdictions
- Core focus is to develop the globally significant and high value pollucite (Caesium) deposit
 - Already the 3rd largest deposit in the world - expansion potential and additional targets
 - First major pollucite discovery in the world in last 40 years
 - Mine Permitting proceeding in a timely fashion
- Drilling underway at Pioneer Dome targeting caesium and lithium extensions
- Follow-up drilling planned for Mavis Lake (Ontario) expanding the new lithium (spodumene) intersections
- Blair Dome cobalt exploration strategy to be set over the next few months
 - Examining options to create a dedicated cobalt company/project
- Drilling also under way to test for Nickel Sulphides at the Blair Dome
- Drilling anticipated at the Acra Gold Project, fully funded by Northern Star
- Pioneer is well positioned to continue exploration with A\$3.4 million cash
- Experienced Board and Management to continue to work towards progressing the Company's projects and generating value for shareholders

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Corporate Overview



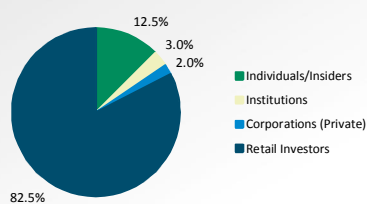
Capital Structure

Share Price (3 May 2017)	\$0.019
Shares Outstanding (m)	1,037.7
Market Capitalisation (\$m)	19.7
Cash (\$m)	3.4
Debt (\$m)	0.0
Options Outstanding (listed/unlisted(m))	44.3/55.3

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





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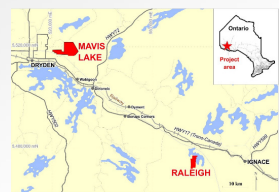
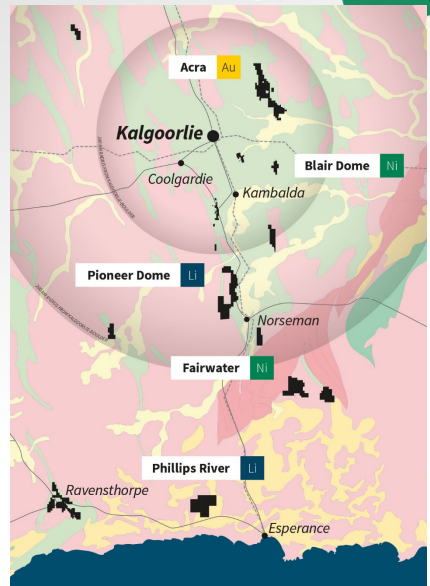

Key Assets

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Key Assets Overview

Project	Location	Commodity	Ownership	Status
Pioneer Dome	Eastern Goldfields	Lithium, Caesium, Tantalum	100%	Caesium Resource drill out, lithium drilling
Blair Dome	Kalgoorlie	Nickel, Cobalt	100%	Nickel resource, assessing cobalt potential
Mavis Lake	Ontario	Lithium	Earning 80%	Maiden drill programme complete
Raleigh	Ontario	Lithium	Earning 80%	Assessing drill hole targets
Acra	Kalgoorlie	Gold	80%	NST farming-in to project (up to 75%)
Phillips River	Ravensthorpe	Lithium	100%	
Donnelly River	Greenbushes	Lithium	Earning 90%	

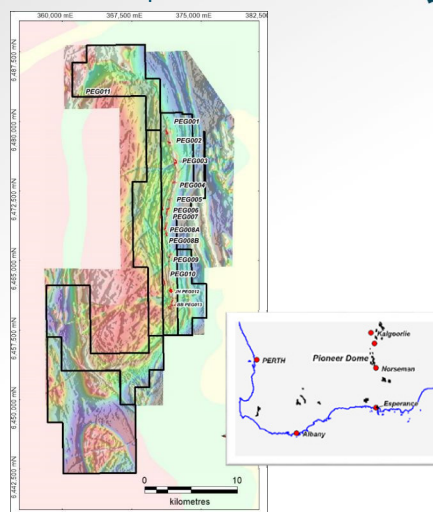
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Pioneer Dome LCT Project

Project Details

- Lithium Caesium Tantalum (LCT) Pegmatites discovered mid 2016.
- Project located in the Eastern Goldfields WA
- PIO ownership 100%
- 341 km² of tenements over 6 ELs and 1 MLA
- Contains the **World's 3rd largest pollucite (high grade caesium) deposit**
 - 19 'priority 3-5' target areas
 - Ability for this to become globally significant: **A rare commodity with high demand**
 - Drilling underway with potential to grow the existing deposit and discover others
- Pioneer Dome is also prospective for lithium (spodumene and lepidolite) odumene and lepidolite strategies are being aggressively pursued
- Key infrastructure in place with road, rail, gas and water all passing through the tenements
- Farm-in agreement with Lepidico (ASX: LPD) to earn a 75% interest in the PEG009 Lepidolite Prospect only: **Gives L-Max[®] exposure**

Tenement Map



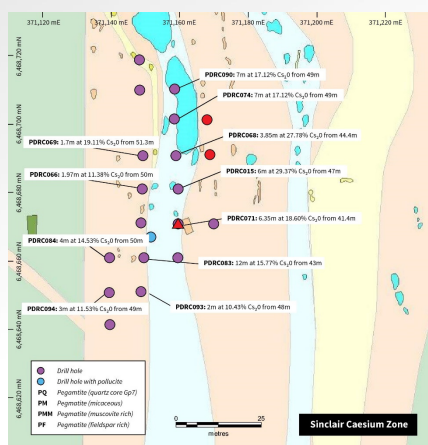
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Pioneer Dome – Massive Caesium Potential

Globally Significant Caesium Potential

- Since discovery in October 2016, the Company has defines a Measured Mineral Resource of **10,500t pollucite grading 17.1% Cs₂O**
This makes it the World's 3rd largest known pollucite deposit (pre-depletion of others)
- Major use is caesium formate (CsFm) brine –as a development enhancement fluid and lubricant in HP/HT oil and gas drilling, delivering faster hole completion and higher production rates
 - Cabot EBITDA (2010-14) ~US\$37m/yr**
 - CsFm production approx. 8500bbl/yr**
- Pollucite mineralisation remains open or untested North and South of the Sinclair Zone
 - Drilling recommenced in May to test North / South continuation
 - Potential to expand an already globally significant caesium deposit**
- Mining studies already commenced and 5,000t bulk sample met test-work in 2H 2017
- Pioneer is also in offtake discussions with leading global CsFm producers

Sinclair Zone – Drill Hole Locations



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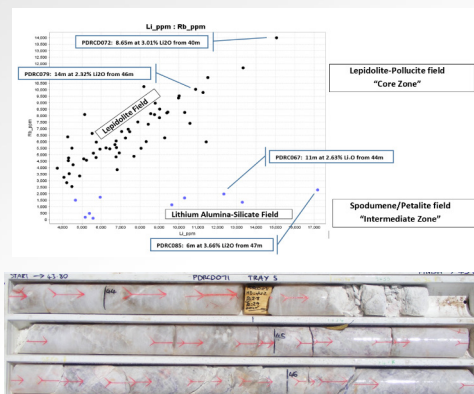
Pioneer Dome – Lithium



Lithium Spodumene

- Lithium-bearing alumina-silicates (includes spodumene and petalite) are evident in two areas adjacent to the Sinclair Caesium Zone
- Infill soil samples highlight prospectivity of targeted pegmatites
- Key Lithium alumina-silicate drilling intersections include:
 - PDRC067: 11m at 2.63% Li_2O from 44m
 - PDRC085: 6m at 3.66% Li_2O from 47m
 - PDRC102: 6m at 1.16% Li_2O from 30m
 - PDRC059: 3m at 2.85% Li_2O from 38m
 - PDRC076: 5m at 2.22% Li_2O from 47m
- Detailed mapping demonstrates the PEG008 system (includes Sinclair Zone) is over 2.4 km long – drilling has tested 30% of the strike length, intersecting lithium and caesium
- Mapping is complete at PEG004 with PEG003 the next target to be mapped

Lithium related image



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Pioneer Dome – Lithium cont.

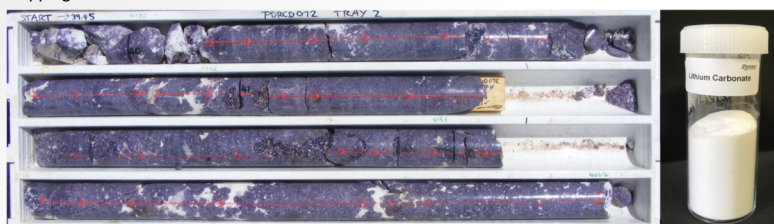


Lepidolite Development Strategy

- Farm-out Agreement to advance the PEG009 Lepidolite. **Lepidico** can earn 75% interest in PEG009 by defining a lepidolite lithium resource of >500kt @ 1.2% Li_2O within 2 years
- Pioneer retains non-lepidolite rights
- JV covers 2% of the Pioneer Dome project area, and provides exposure to encouraging L-Max® technology – a lepidolite treatment solution
- High specification battery grade lithium carbonate grading 99.7% formed from Pioneer Dome Lepidolite using L-Max® technology
- Lepidico has commenced pre-drilling field mapping at PEG009

Lepidolite outside of PEG009

- Drilling by Pioneer outside of PEG009 has also returned a number of high-grade (>2.00% Li_2O) lepidolite intersections adjacent to the Sinclair Caesium Zone:
 - PDRC070: 12m at 2.22% Li_2O from 44m
 - PDRC073: 13m at 2.13% Li_2O from 39m
 - PDRC072: 8.65m at 3.01% Li_2O from 40m
 - PDRC079: 14m at 2.32% Li_2O from 46m
 - PDRC090: 8m at 2.62% Li_2O from 51m
 - PDRC091: 13m at 2.03% Li_2O from 55m
 - PDRC095: 6m at 2.95% Li_2O from 49m



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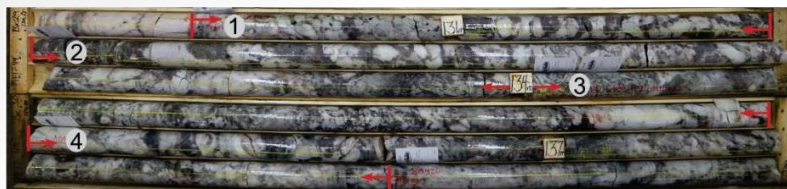
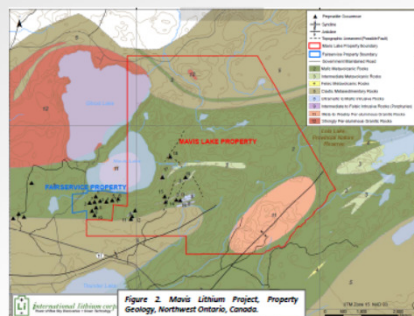
Mavis Lake Lithium Project

Pioneer
RESOURCES LIMITED

Project Details

- PIO earning up to 80% ownership in the project from International Lithium Corp. (TSXV: ILC)
 - Earn-in to 51% by expending C\$1.5m on exploration over 3 years and paying ILC C\$0.375m (50% cash, 50% scrip)
 - Earn a further 29% by expending C\$8.5m within 7 years
- Drilling by Pioneer has intercepted a number of significant Lithium spodumene intercepts
 - Follow up drill programme planned for the summer drilling season focussed on the Fairservice Prospect
- Project tenements are adjacent to the Trans Canadian highway and rail

Tenement Map



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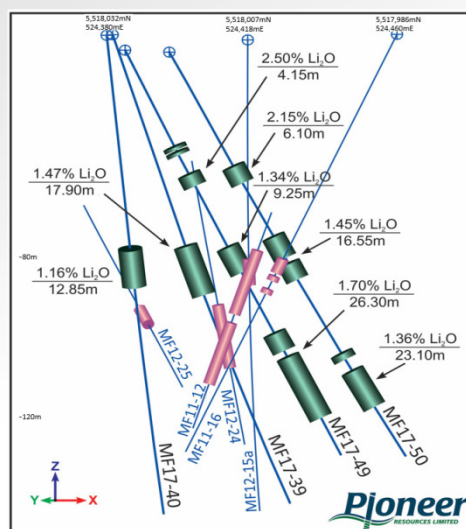
Mavis Lake Exploration

Pioneer
RESOURCES LIMITED

Exploration Overview

- During Q1 2017 Pioneer completed its maiden drilling programme at the Mavis Lake Project, drilling at PEG006 (4 holes, 698m), PEG006.5 (1 hole, 68m), and PEG018 (7 holes, 539m)
- Key Li₂O Intersections at the PEG006 Fairservice Pegmatite Target Area included:
 - 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
- Key historic results at PEG006 also include:
 - MF-11-12: 16m at 1.53% from 125m and 26.25m at 1.55% from 152m
- Drilling at PEG018 also intersected spodumene pegmatites with thickness of 1.5m – 9.85m
- PEG018 remains open East, West and at depth
- The next phase of drilling at the Fairservice prospect is anticipated to commence in the northern summer field season.

Fairservice Prospect



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Mavis Lake Exploration



Fairservice Pegmatite
John Harrop, Fred Breaks, Mike Sieb,
Adam Paterson (First Nations)



Mavis Pegmatite 18 with
spodumene mineralisation



Raleigh drill core with
spodumene mineralisation



Fairservice Pegmatite with
spodumene mineralisation

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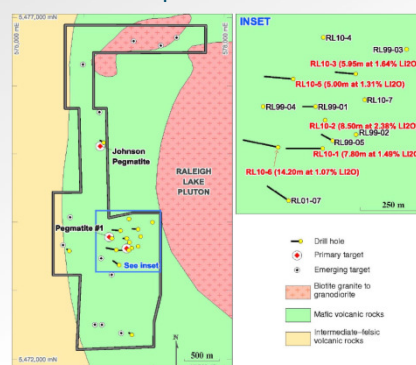
Raleigh Lithium Project



Project Details

- Lithium project (Ontario Canada)
- PIO is currently earning up to 80% ownership in the project also currently owned by ILC
 - Earn-in to 51% by expending C\$1.25m on exploration over 3 years and paying ILC C\$0.25m (50% cash, 50% scrip)
- Earn a further 29% by completing a PFS within 7 years
- Historic Li_2O drill intersections at Raleigh include:
 - RL-10-01: 7.8m at 1.49% from 153.2m
 - RL-10-02: 8.5m at 2.38% from 84m
 - RL-10-03: 5.95m 1.64% from 103.05m
 - RL-10-05: 5m at 1.31% from 26m
 - RL-10-06: 14.2m at 1.07% from 114m

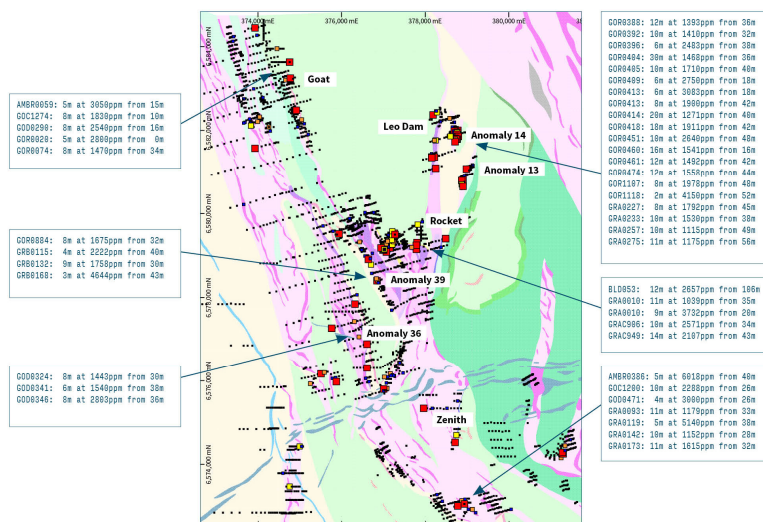
Tenement Map



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Blair Dome – Cobalt

Prospective for cobalt which has been detected in previous drilling



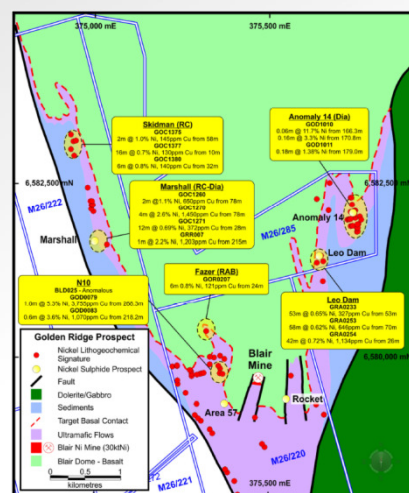
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Blair Dome – Overview

Project Details

- Nickel-Cobalt project (Kalgoorlie WA)
- PIO ownership 100%
- Hosts the Blair Nickel Mine which, prior to 2008, produced 1.26Mt at 2.62% Ni
- Total remaining Indicated and Inferred Resources:
- 222,710t at 2.92% Ni
- Mineralisation and anomalies are evident along a domed basal ultramafic contact, which has a strike length of 12km within Pioneer's tenure
 - Diamond drilling scheduled to be undertaken during May 2017
- Kambalda nickel processing facility is located within 40km

Tenement Map



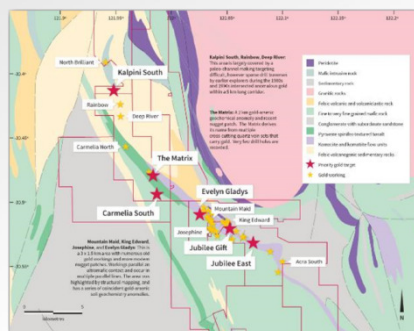
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Acra Overview

Project Details

- Gold project (Kalgoorlie WA)
- 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
- Established infrastructure nearby:
 - Located 60km NE from Kalgoorlie, WA
 - 40km east of NST's Kanowna Belle gold mill with linking haul road
- 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
- Work is scheduled to commence before the end of the current quarter, subject to completion of aboriginal heritage surveys that are still required.

Tenement Map



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Summary

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Summary



- Pioneer holds exposure to a number of key global demand driven commodities
- New discovery of high-value caesium resource at Pioneer Dome is world's 3rd largest with potential to significant grow
- Pioneer Dome lithium potential also confirmed through recent high grade drill intercepts and successful results from Lepidico's LMax technology
- The company is actively assessing its cobalt strategy and exploration progress at the Blair Dome
- Maiden drilling programme completed at Mavis Lake in Canada with significant lithium spodumene intersections
- NST progressing exploration at Pioneer's ACRA project through farm-in agreement

Significant portfolio of highly prospective assets ... some which could be game-changers for Pioneer

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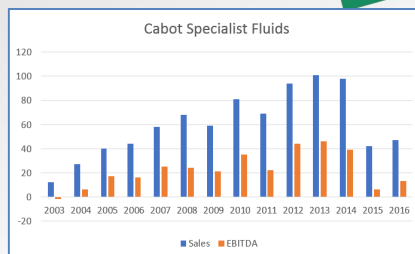
Appendices

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Global Caesium Demand



- Pollucite is a rare mineral of caesium and pollucite supply very constrained
- The principal use for pollucite is in the manufacture of Caesium Formate (CsFm) brine which acts as a lubricant in high temperature/high pressure oil and gas drilling, delivering higher production rates
- The two main producers of caesium are:
 - TANCO mine owned and operated by 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 average US\$37 million
- CsFm rented to oil companies including Shell, Total, Statoil, ExxonMobil and BP, on 30 wells per year (2008-2009)



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Reserves and Resources



Sinclair Caesium Zone

Classification	Tonnes	Cs ₂ O	Cs Metal
	(t)	(%)	(t)
Measured	10,500	17.1	1,694
Total	10,500	17.1	1,694

Mineral Resource Summary by Category: Sinclair Caesium Deposit
Note: Appropriate rounding applied

Blair Nickel Mine

Class	Tonnes	Ni	Ni Metal
	(t)	(%)	(t)
Indicated	75,560	4.37	3,300
Inferred	147,150	2.18	3,210
Total	222,710	2.92	6,510

Mineral Resource Summary by Category: Blair Nickel Mine
Note: Appropriate rounding applied

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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

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

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