



ARGOSY MINERALS
LIMITED

Fast-track development in the world's most prolific lithium region

Presentation – October 2017

ASX Code: AGY



www.argosyminerals.com.au

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The information in this report that relates to technical matters is based on information compiled by Jerko Zuvela who is the Managing Director of AGY. Mr Zuvela is a Member of the Australasian Institute of Mining and Metallurgy.

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All amounts in A\$ unless stated otherwise.

Company Overview

Lithium brine project in the 'Lithium Triangle' with development works commenced

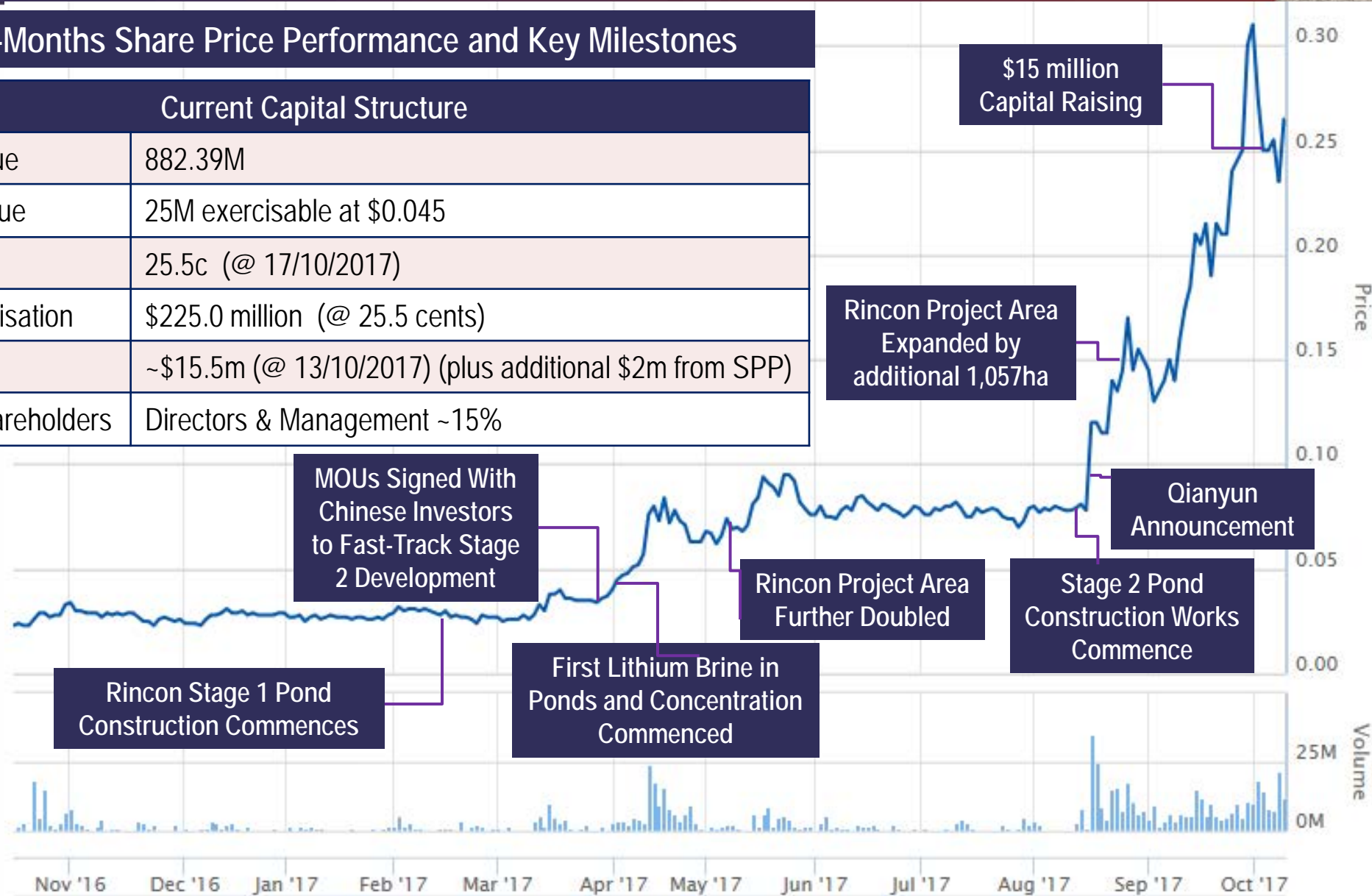
- Key Rincon Lithium Project located in the world-class "Lithium Triangle" – the world's dominant source of lithium production:
 - *located in Salar del Rincon, Salta Province, Argentina*
 - *flagship asset in Argosy's lithium fast-track development strategy, with a clear conceptual pathway targeting battery grade lithium carbonate (LCE) production*
 - *Stage 1 & 2 development works now in progress concurrently*
 - *Stage 1 plant capacity up to 500tpa LCE product – first product targeted for March 2018 Quarter*
 - *Pre-eminent lithium processing expert Pablo Alurralde managing Rincon Project*
- \$15m capital raising recently completed with additional \$2 million SPP currently in progress
 - *Funds to be utilised for continued Stage 2 development works*
 - *Company now fully funded to first production of targeted battery grade LCE product*
- In-principle agreement for Argosy to acquire immediate 77.5% interest in Puna Mining S.A. – the JV entity that owns the Rincon Lithium Project
- Continued engagement with customers in tightening lithium market to secure Off-take Agreements
- Argentina – open for business
- 3 • Strong upcoming news flow on continued Rincon development



Capital Structure, Share Price & Milestones

Last 12-Months Share Price Performance and Key Milestones

Current Capital Structure	
Shares on Issue	882.39M
Options on Issue	25M exercisable at \$0.045
Share Price	25.5c (@ 17/10/2017)
Market Capitalisation	\$225.0 million (@ 25.5 cents)
Cash	~\$15.5m (@ 13/10/2017) (plus additional \$2m from SPP)
Significant Shareholders	Directors & Management ~15%



Directors & Management

Alex Molyneux – Non-Executive Chairman

Mr. Molyneux is an experienced resources industry executive. Mr. Molyneux currently serves as CEO of uranium producer, Paladin Energy Limited. He is a Co-Founder of Azarga Resources Group and Non-Executive Chairman of Azarga Metals Corp. Mr. Molyneux was previously President, CEO and Director of SouthGobi Resources, an Ivanhoe Mines Group company, and a Non-Executive Director of Goldrock Mines Corp. Prior to joining SouthGobi, Mr. Molyneux had a 10-year career as a natural resources investment banker, including as Managing Director, Head of Metals and Mining Investment Banking, Asia for Citigroup.

Jerko Zuvela – Managing Director

Mr Zuvela is a Chartered Professional Geologist having spent over 20 years in the mining and resources industry. Mr. Zuvela has held executive management roles for private and public resources companies, with operational and corporate experience in various commodities covering exploration, project development, business development, finance, commercial and corporate activities involved with projects in Australia, South America, Asia and Africa. Mr. Zuvela has considerable experience in building junior resources companies and understands the requirements working within this sector, including fundamental parameters, strategic drivers and market requirements.

Ranko Matic – Non-Executive Director

Mr Matic is a Chartered Accountant with over 25 year experience in the areas of financial and executive management, accounting, audit, business and corporate advisory. Mr Matic is a director of a chartered accounting firm and a corporate advisory company based in Perth, and has specialist expertise and exposure in areas of audit, corporate services, due diligence, mergers and acquisitions, and valuations.

Mal Randall – Non-Executive Director

Mr Randall (Dip Applied Chem, FAICD) holds a Bachelor of Applied Chemistry degree and has more than 45 years' of extensive experience in corporate, management and marketing in the resources sector, including more than 25 years with the Rio Tinto group of companies.

Pablo Alurralde – President Rincon JV Project *(Mr Alurralde's experience described in detail in following pages)*

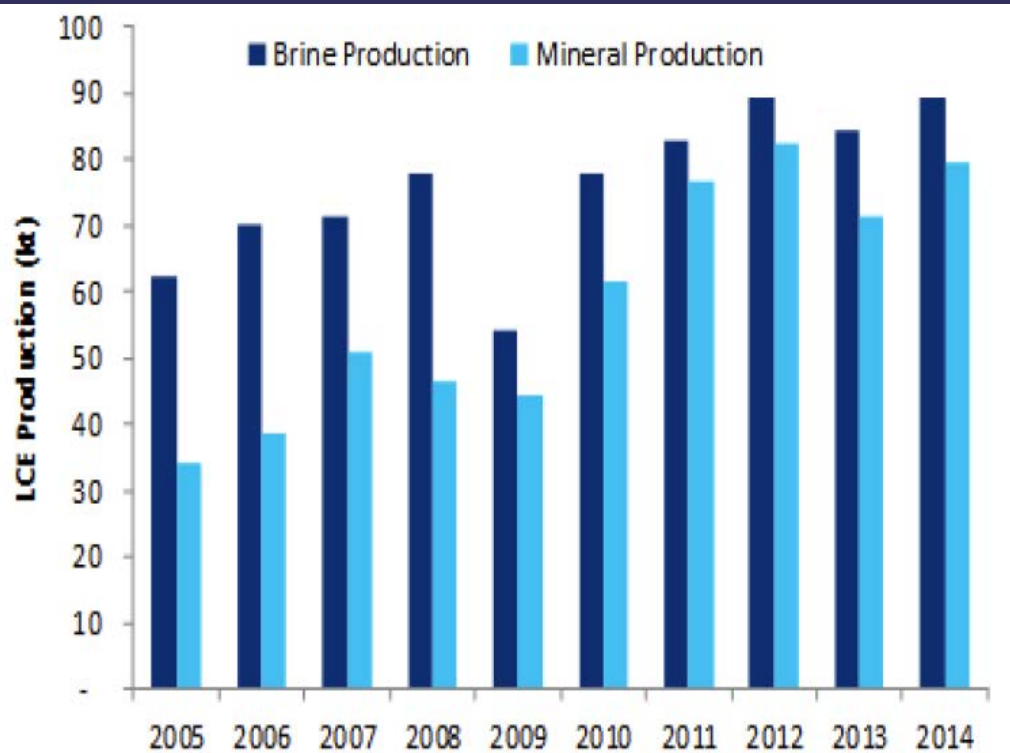
Lithium 101: Brine vs. Hard-Rock Production

Most lithium production comes from lower cost brine production



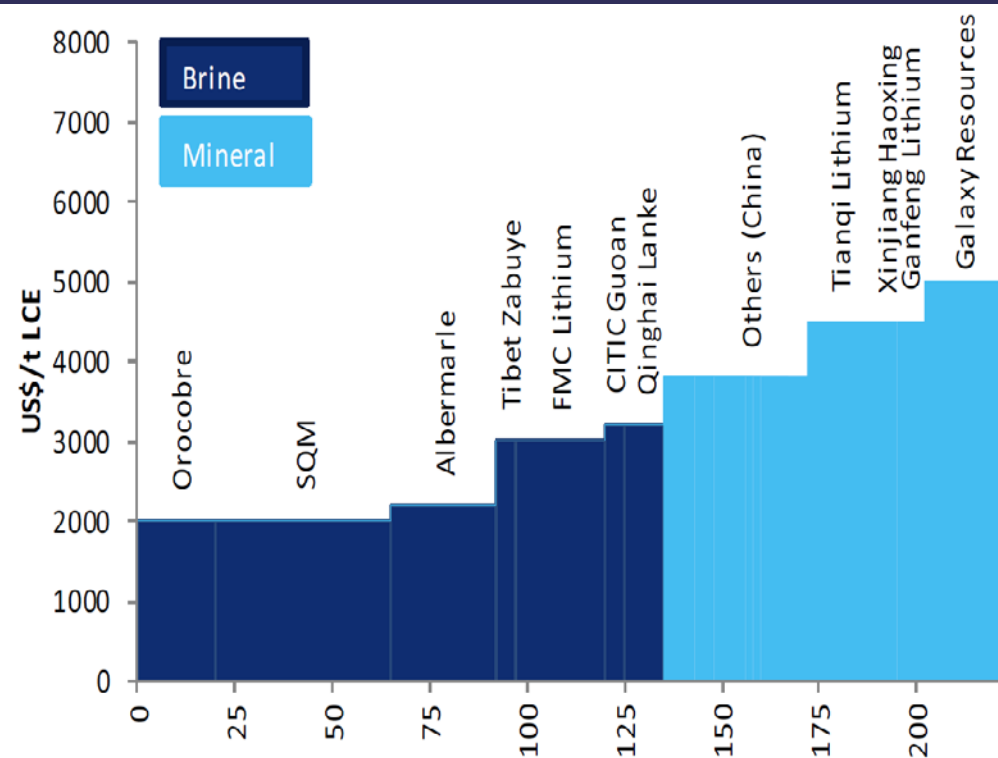
- Lithium production is predominantly delivered from brines
- Brines have significantly lower extraction costs compared to hard rock deposits

Lithium Production by Deposit Style



Source: Citi Research

Lithium Cost Curve (by Capacity)



Source: Citi Research

Argosy is focused on developing brine projects with the potential to have low capital and operating costs

Argosy in the “Lithium Triangle”

World’s most prolific lithium producing region



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49% of
Global Lithium
Production from the
“Lithium Triangle”
which holds
approximately
70% of World’s
Lithium Reserves

AGY Rincon JV Lithium Project

Salars (salt flats)



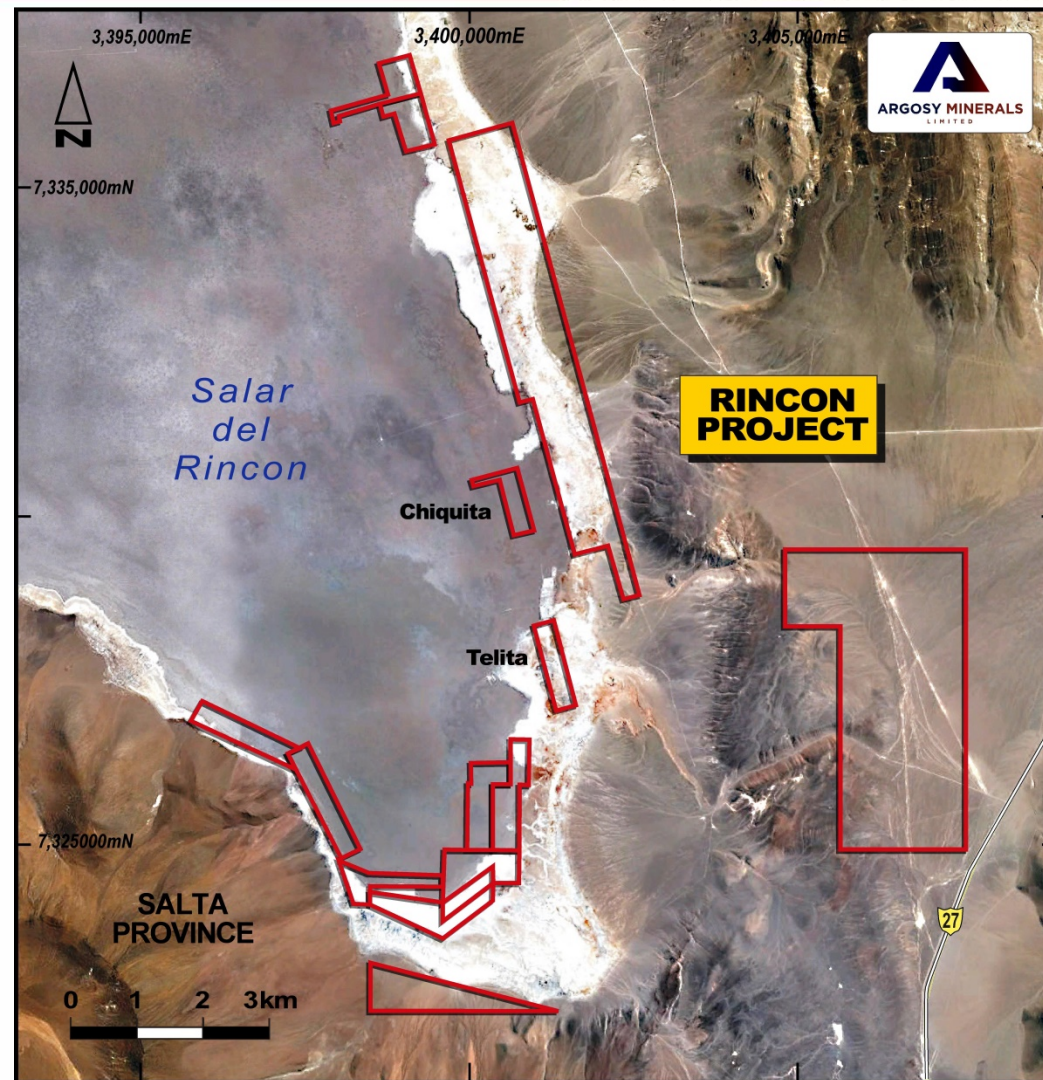
Rincon Project: Recent History and Overview

A significant opportunity to achieve near-term lithium production

- Binding JV Agreement executed September 2016
 - Argosy to earn up to a 90% interest in the Project
 - In-principle agreement for Argosy to acquire immediate 77.5% interest in Puna Mining S.A. – the JV entity that owns the Rincon Lithium Project
 - Partnership with Argentinian lithium processing expert Pablo Alurralde
- Project currently comprises up to 2,346ha of mining concessions at Salar del Rincon
- Extensive historical works conducted within Salar del Rincon
 - Average lithium brine content of 300-400ppm (Ferretti, 1989)
 - Historical drilling & associated works indicate average lithium content of 397ppm (Ovejero Toledo, 2007)

(Piezometer well)	(Sample depth (m))				
	10	20	30	40	50
Pozo piezométrico	Profundidad de muestra (m)				
	Li ⁺ (mg/l)				
FPR 1001	456	397	409		
FPR 1002	401	400	392	334	
FPR 2001	385	369	345	337	
FPR 2002	393	395	379	338	
FPR 3001	388	361	369	380	
FPR 3002	417	418	415	383	376
FPR 4001	394	426	390	427	370
FPR 4002	427	438	389	401	
FPR 5001	383	405	393	390	384
FPR 5002	444	456	449	408	453
FPR 6001	410	414	446	435	
FPR 6002	436	423	390	372	
FPR 7001	370	364	369	349	
FPR 7002	434	407	388	372	
(Average) Media aritmética	397 mg/l				

* Según Ovejero Toledo 2007.
(According to Ovejero Toledo 2007)



Rincon Project Location Map

Rincon Project: Location and Infrastructure

A significant opportunity to achieve near-term lithium production

- The Project lies within Salta Province, ~3,700m ASL, serviced by city of Salta with population of 600,000
- The region is known for its evaporation rates, given UV is very high, with ~90% of all the days of the year being cloud free and minimal rainfall.
- High quality regional and site infrastructure, including the Pocitos industrial site, will facilitate project development, with road, rail, port facilities and power generation services such as electrical and natural gas.



Pocitos industrial site



Salar del Rincon (looking southwards)

Rincon Project: Development Milestones

A significant opportunity for near-term battery grade lithium carbonate production



Stage 1

Lab-scale pilot plant to produce up to 100-150t of commercial grade clean LCE

**Updated increased plant capacity
targeting up to 500tpa LCE**

Stage 2

Complete development works to expand plant capacity up to ~1,000 - 1,500 tpa LCE

Works already commenced

Stage 3 - AGY to earn 90% interest

Expanded commercial LCE
production target

Stage 1 Works Schedule (by Quarter end)

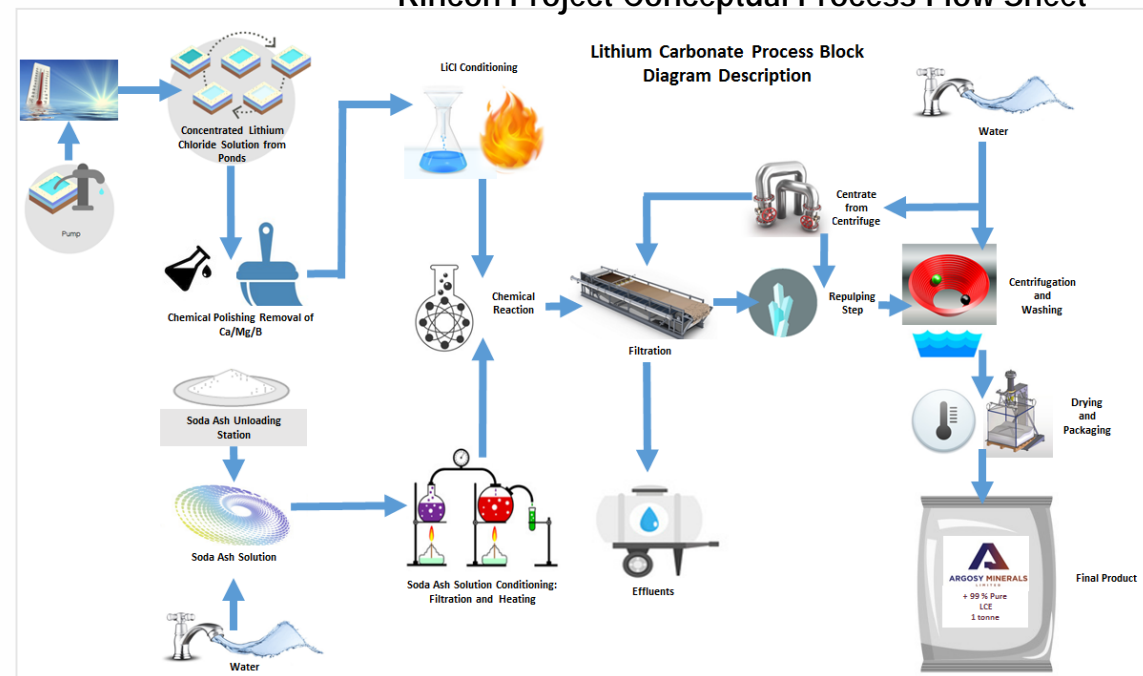
	Dec-16	Mar-17	Jun-17	Sep-17	Dec-17	Mar-18
Environmental studies and regulatory approvals/permits						
Pond construction and associated works, including contractor tendering						
Pond lining and associated works						
Brine extraction, pumping, storage and transportation works						
Pilot plant construction and test-works, including brine processing, analysis and laboratory treatment of the lithium concentrate						
Produce first LCE product						

Rincon Project: Stage 2 Development Works Commenced

Development works ahead of schedule

- Stage 1 works progressing – on schedule to produce first battery grade LCE product during March 2018 Quarter
 - Targeting up to 500tpa LCE product via lab pilot plant
 - Lab pilot plant design completed and site acquired
- Stage 2 works commenced
 - Evaporation pond construction works progressing
 - Drilling commenced, targeting delineation of JORC-compliant Resource in Q1, 2018
 - Stage 2 larger scale pilot plant designed, construction to commence in Q1, 2018

Rincon Project Conceptual Process Flow Sheet



Rincon Project – Stage 1 Evaporation Ponds



Rincon Project – Stage 2 Pond Construction Works



Rincon Project: Key Partner & Expertise

Pablo Alurralde & Lithium Processing Patents

Partnership with Argentinian lithium expert Pablo Alurralde

- Chemical Engineer and Master of Philosophy, former director of FMC Argentina operations
- 15 years' experience producing lithium carbonate and 30 years' experience designing chemical processes
- With chemical solution to extract lithium from brines at Rincon
- Successfully produced lab-scale LCE product from Salar del Rincon historically
- Patent presented at US Patents Offices as first inventor for "Production of Lithium Carbonate from concentrated brines on sodium chloride" granted to FMC
- Technical reports on benefit of Rincon and other salars
- Experience in the optimisation of industrial plants, international commerce and logistics
- In-depth knowledge of international lithium market



US008309043B2

(12) United States Patent Alurralde et al.	(10) Patent No.: US 8,309,043 B2
	(45) Date of Patent: Nov. 13, 2012
(54) RECOVERY OF LI VALUES FROM SODIUM SATURATE BRINE	4,347,327 A 8 1982 Lee et al.
(75) Inventors: Pablo Alurralde , Salta (AR); Vijay Mehra , Gastonia, NC (US)	4,348,295 A 9 1982 Barba
(7A) Assignee: FMC Corporation , Philadelphia, PA (US)	4,348,296 A 9 1982 Bauman et al.
(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.	4,348,497 A 9 1987 Hanuman et al.
(21) Appl. No.: 13/288,389	4,378,100 A 3 1983 Lee et al.
(22) Filed: Nov. 3, 2011	4,783,109 A 4 1983 Lee et al.
(65) Prior Publication Data US 2012/0141342 A1 Jan. 7, 2012	4,430,311 A 2 1984 Lee et al.
Related U.S. Application Data	4,461,714 A 7 1984 Barba
(60) Provisional application No. 61/420,042, filed on Dec. 6, 2010.	4,472,362 A 9 1984 Barba
(51) Int. Cl. C01D 25/09 (2006.01)	4,473,962 A 9 1984 MacIntyre
(52) U.S. Cl. 423/179.5; 252/184; 23/295 S; 23/306	4,477,307 A 10 1984 Barba
(58) Field of Classification Search 423/179.5; 423/181; 23/295 S; 306; 252/184 See application file for complete search history.	5,380,249 A * 2 1995 Bauman et al. 423 179.5
(56) References Cited U.S. PATENT DOCUMENTS 3,099,538 A 7 1963 Hadzenga 3,406,700 A 2 1967 Neppel et al. 4,116,856 A 9 1978 Lee et al. 4,116,858 A 9 1978 Lee et al. 4,159,811 A 6 1979 Lee et al. 4,221,767 A 9 1980 Lee et al. 4,291,001 A 9 1981 Repcher et al.	5,609,516 A * 2 1997 Bauman et al. 6,017,500 A * 1 2000 Mehra 423 179.5 6,555,678 B1 * 4 2003 Mehra 423 179.5 2011 0306041 A1 * 12 2011 Gell et al. 423 179.5
	FOREIGN PATENT DOCUMENTS EP 6117316 A1 9 1994 OTHER PUBLICATIONS Notification of Transmittal of the International Search Report and the Written Opinion of the International Searching Authority, or the Declaration corresponding to International Application No. PCT/US2011/059673 mailed Jan. 23, 2012.
	* cited by examiner Primary Examiner: Steven Bos (74) Attorney, Agent, or Firm: Myers Bigel Sibley & Sajovec, PA
	(57) ABSTRACT The present invention provides a process for recovering Li values from a sodium saturated brine. The process includes recovering Li values from a sodium saturated brine which contains LiX. The process includes concentrating the sodium saturated brine to at least 5000 mg/L LiX, passing the concentrated brine through a bed of polycrystalline hydrated alumina pellets until the pellets are loaded with LiX from the concentrated brine, displacing brine held-up in the bed by using concentrated NaX, unloading LiX from the pellets by flowing through the bed an aqueous solution of LiX which is not saturated, displacing the LiX from the bed using concentrated NaX, and repeating the steps at least one additional time to provide the Li values.
	6 Claims, No Drawings

Patent for "Recovery of Li values from sodium saturate brine"
US 8309043 B2

SALARES ARGENTINOS: FUENTES DE RIQUEZA

PARTE I. ESQUEMA PRELIMINAR DE BENEFICIO

NEDO NANNI y PABLO H. ALURRALDE
Instituto de Beneficio de Minerales, Universidad Nacional de Salta (Argentina).

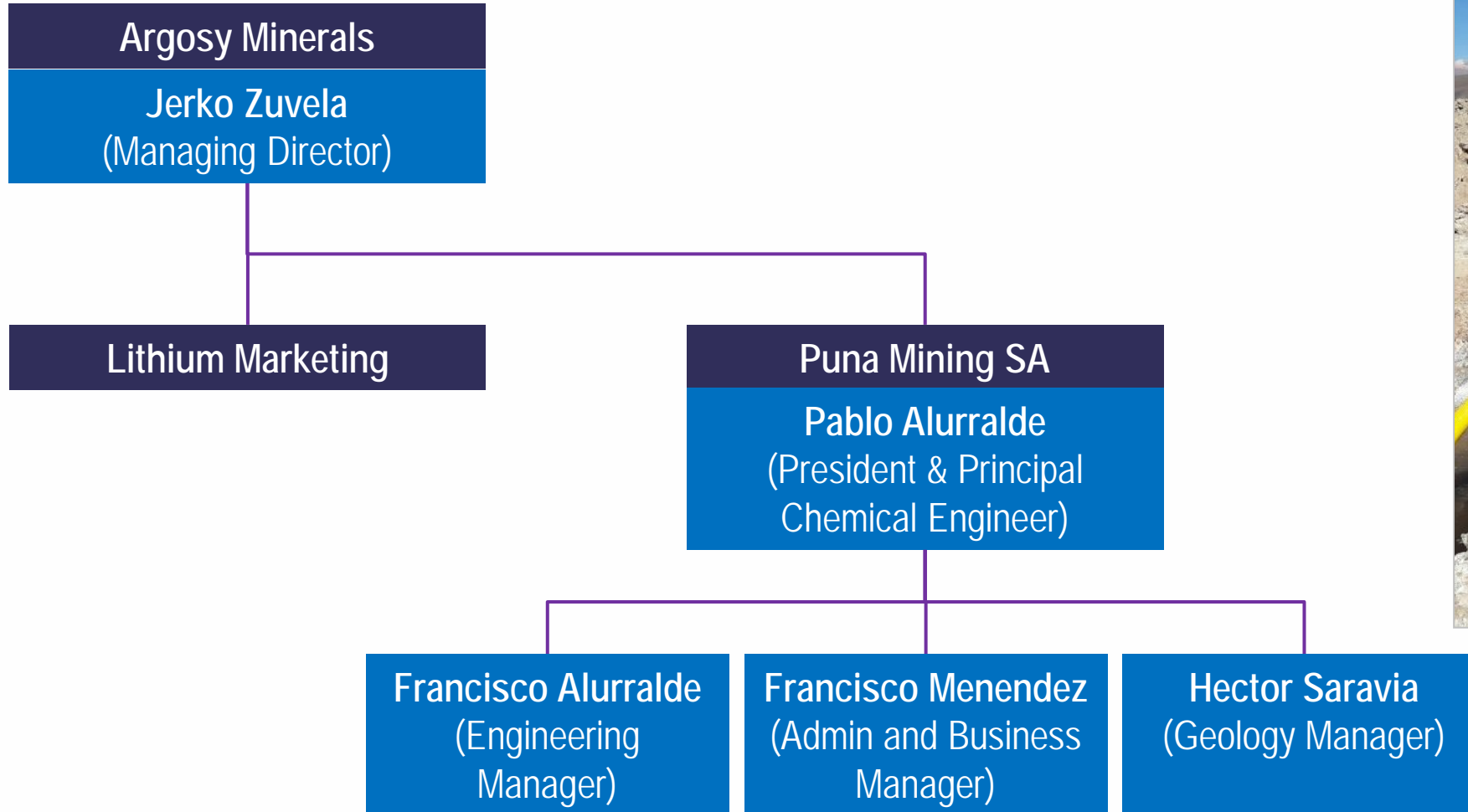
Rincon Project: Executive Management

Management team



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✓ Argosy has executed a Definitive Farm-In Joint Venture Agreement for the Rincon Lithium Project and will earn up to a 90% interest in the Argentinian joint venture company – Puna Mining S.A.



Investment Summary

- ✓ Key focus is on Rincon Lithium Project located in the world-class "Lithium Triangle" – the world's dominant source of lithium production
- ✓ Company now fully funded to first production of targeted battery grade LCE product
- ✓ Fast-track development at Rincon Project progressing – targeting first battery grade LCE product scheduled for March 2018 Quarter
- ✓ In-principle agreement for Argosy to acquire immediate 77.5% interest in Puna Mining S.A. – the JV entity that owns the Rincon Lithium Project
- ✓ Pre-eminent lithium processing expert Pablo Alurralde managing Rincon Project
- ✓ Argentina – open for business





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Argentina: Re-connecting with the Global Economy

Positive macro-economic developments underpin strong growth outlook



- New President (Mauricio Macri) and new Government elected in December 2015
- Most export duties and trade controls abolished:
 - *Removal of 5% duty on high grade lithium and refined boron products*
 - *Removal of 10% duty on boron mineral concentrates*
- Exchange rate and capital controls eliminated
- Recently settled outstanding claims from 2003 default and returned to global capital markets
- American Chamber of Commerce in Argentina said US firms would invest US\$2.3 billion in Argentina over the next 18 months



Lithium – The Perfect Storm of Demand and Supply

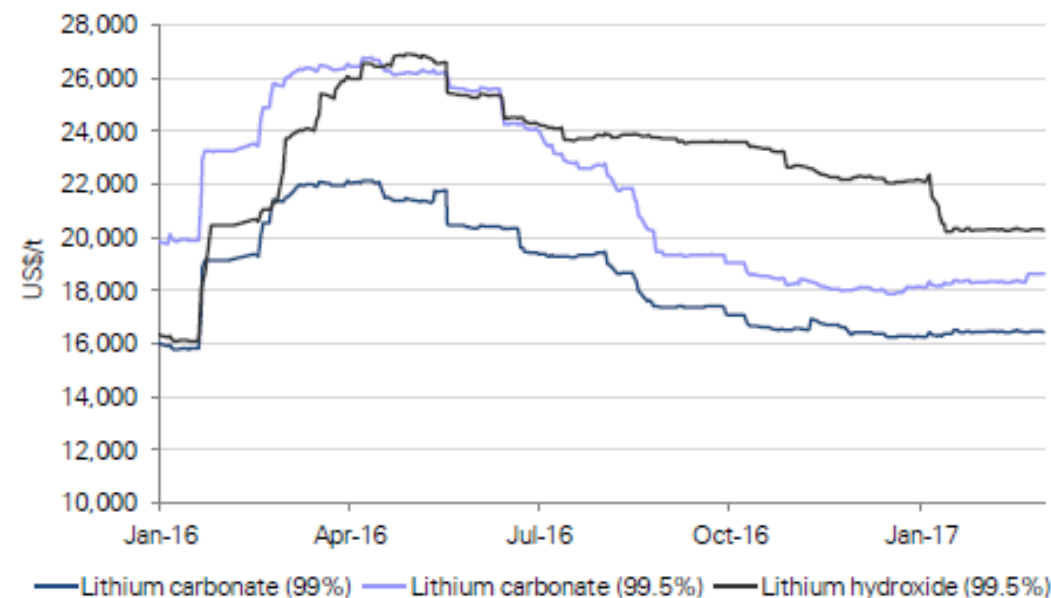
"Lithium is the new gasoline"



The Keys to Lithium Growth

- Lower lithium-ion battery costs (now down to around US\$200-kWhr) set to make electric vehicles (EVs) more affordable
- Several experts such as Tony Seba (in his video on "clean energy disruption") expect EVs to be cheaper than Internal Combustion Energy (ICE) cars by 2020
- Adoption of EV technology set to increase for cars, buses and bikes – aided by falling unit costs, improving technologies, longer range and more charging networks
- Energy storage using lithium batteries becoming more popular

Figure 16: Spot lithium carbonate and hydroxide pricing



Source: Asian Metals, Factset

Goldman Sachs December 2015 report: "...lithium is the new gasoline"

- Total lithium demand today is 160,000mT of lithium carbonate equivalent (LCE) per year
- For every 1% increase in battery electric vehicle (BEV) penetration, there is an increase in lithium demand by around 70,000mT of LCE/year

Lithium...Why?

Ask the Experts

Tesla Shakes Up Market for Lithium

- 'In order to produce half a million cars a year...we would basically need to absorb the entire world's lithium-ion production,' Elon Musk said in March.

Lithium-Ion Will Be Tough To Beat, Says Argonne Battery Whiz

- Put four years into a five-year effort to develop a better battery at Argonne National Laboratory, one Argonne engineer concedes Li-ion will be tough to beat in the marketplace. "It's just going to be incredibly difficult for other battery technologies to catch up with it," said Kevin Gallagher, an electrochemical engineer, in an appearance at the University of Chicago in May 2016. "I think that's the lesson that a lot of new battery technologies are learning—definitely."

Rio Tinto sees a battery-powered future

- Rio Tinto believes Powerwall batteries also loom as another shape-shifter for new energy materials markets, according to the Australian Financial Review.

"India Wants To Become First Country With 100 Percent Electric Vehicles by 2030"

- Tech Times, 28/3/2016

Battery-hungry World Turns to South America's 'Lithium Triangle'

- In addition to Tesla, traditional car companies including Nissan and BMW operate in the burgeoning electric vehicle industry. Germany's Daimler recently announced it would build a new lithium-ion battery factory, while technology firms like Samsung and Foxconn are also key users. As prices rise, they are keen to lock in deals.



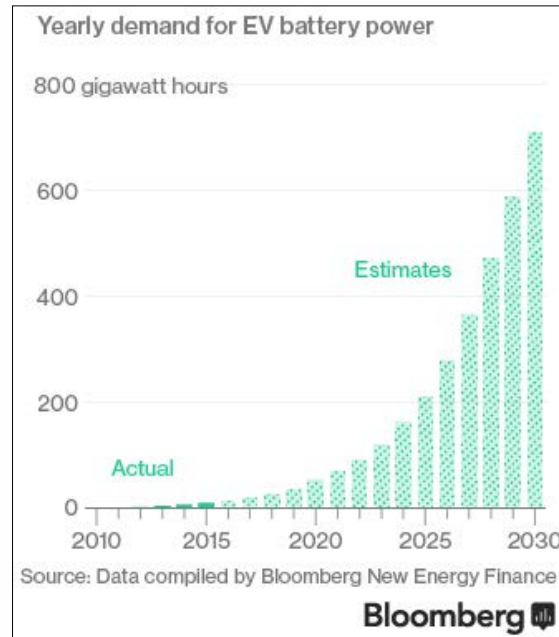
Lithium – The Perfect Storm of Demand and Supply

"Lithium is the new gasoline"

Lithium Demand Forecasts to 2025

- Goldman Sachs – "Growth in EV applications alone could triple the size of the entire lithium market from 160,000 mt today to 470,000 mt by 2025. That is based on 22% EV penetration (BEV, PHEV and HEV combined) in 2025 from under 3% today."
- Deutsche Bank in its "Lithium-ion age" stated, "Global battery consumption is set to increase 5x over the next 10 years, placing pressure on the battery supply chain and lithium market. We expect global lithium demand will increase from 181kt Lithium Carbonate Equivalent (LCE) in 2015 to 535kt LCE by 2025."
- Summary of expected lithium carbonate demand to 2025:

	2015 LCE demand (tonnes)	2025 LCE demand (tonnes)	LCE increase (tonnes)	% increase
Goldman Sachs	160,000	470,000	310,000	194%
Deutsche Bank	181,000	535,000	354,000	195%





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