ARGENTINA and CHILE Mining Sector Overview

Webinar - December 2018
Welcome - Nicholas Baker TC Mexico and METS Team Leader Americas.

Argentina METS overview: Norma Ramiro
Post Manager Buenos Aires, Argentina

Argentine Guest Speaker: Alejandro Rodriguez Bidegain
Senior Vice President Operations, Centaur Resources

Chile METS Overview: Valeria Ortiz
Business Development Manager, Austrade Santiago

Chilean Guest Speaker: Patricio Pastorelli
Expande Open Innovation International Engagement Manager

Question and answer
MINING RELATED ACTIVITIES

**Turbocharging METS across the Americas**
- Mining client deep-dives (around mine site visits in Latam and Canada)
- Australian best practice workshops on training & education, community engagement and environmental solutions

**PDAC global mining show for the Americas**
- Showcase Australian METS capabilities to international mining companies and customers at PDAC

**New Energy Awareness in the Americas**
MINING RELATED ACTIVITIES

PDAC 2019 & LATAM

✓ Identify LATAM mining customers who are attending PDAC
✓ Invite global mining investors and customers to team Australia Events at PDAC
✓ Develop relationships with key global mining investors and customers
✓ Showcase Australian METS capabilities to international mining companies and customers
✓ Australian METS seminar targeting LATAM mining executives: Latin American mining companies attend PDAC and are looking at Australian METS providers who can increase productivity, reduce cost and innovate their mining projects
✓ EOI open- register through the Austrade website

EXPONOR, May 2019

✓ More info coming soon on the Australian presence and business development program

ARMINERA, May 2019

✓ More info coming soon on the Australian presence and business development program
Norma Ramiro
Post Manager, Austrade Buenos Aires, Argentina.
• 75% of high potential areas are not yet ceded to concession

• More than 90% of concession areas are in early stages of development

• 13th world producer of gold

• 10th world producer of silver

• 20th world producer of copper

• 4th largest lithium reserve in the world:

current production ranks the country 3rd on a global level.
ARGENTINA: PROJECTS PIPELINE

WORLD-CLASS GEOLOGICAL POTENTIAL - 2018

20 years of Large Scale Mining / Metalliferous and lithium Mining

17 Mines in production (2 under Expansion)
2 projects under Construction
6 projects at Prefeasibility-to-Feasibility Stage
11 projects at Previous Economic Analysis
25 projects in Advanced Exploration Stage
45 projects in Medium-to-Early Stage Exploration
> 400 projects in prospection status
MINING METS

OPPORTUNITIES

- Mining equipment
- Mining software
- Environmental related products and services
- Engineering services
- Education and training for the industry

Argentina and Chile Mining webinar 2018
ARGENTINA GUEST

Alejandro Rodriguez Bidegain
Senior Vice President: Operations
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Introduction to Centaur Resources

**Assets:** Centaur Resources has acquired a high quality portfolio of lithium development assets in Argentina. The flagship project is located in a world class lithium district known for its ability to produce high quality lithium products.

**Processing:** Centaur has extensive knowledge of lithium processing with the IP to process lithium brines to both lithium carbonate and lithium hydroxide products, a valuable advantage over its competitors, majority of which do not possesses this technology.

**Infrastructure:** Centaur’s flagship project is located in an already established Lithium mining district. In close proximity to the project is the required infrastructure already constructed and operational to build an industrial size Lithium project as well as multiple projects already producing at commercial levels.

**Team:** Centaur has world class experienced management team, capable and with track records in delivering major mining projects. In addition to its management team, Centaur works with 3rd party experts who are considered ‘best in class’ for the successful development of Lithium projects.
High Quality Lithium Portfolio, Strong Board, Clear Strategy & Vision

A South American Lithium brine focused exploration and development company with the technical expertise and experience to become a significant new producer of Lithium Carbonate and Lithium Hydroxide products in Argentina

Projects

The Lobo Blanco Project is Centaur Resources' flagship project located in the Salta Province, Argentina at the Salar Pastos Grandes, adjacent to properties owned by Millennial Lithium, LSC Corporation and Orocobre.

- Centaur has entered into agreements to acquire a 100% interest in the project from 5 project vendors comprising of 10,032 hectares located in the Pastos Grandes basin. Several of these agreements have closed, with the remaining to do so before the Company IPO’s on the Australian Stock Exchange.
- In the Pastos Grandes salar, exploration activities by Millennial Lithium have confirmed the extension of lithium brine throughout the central and peripheral portions of the salar. A drill hole intersected an upper brine horizon grading 523 milligrams/litre (mg/L) lithium (Li) over 33 metres (27.5m to 60.5m) and more importantly a robust brine horizon averaging a lithium grade of 545 mg/L from 381.7 m to 593 m.
- There is significant geological evidence that lithium-rich brine exceeds the 3,000ha surface area of the Pastos Grandes salar and is likely to be hosted in porous sedimentary rock of quaternary age (Blanca Lila) and tertiary (Sijes formation and other Miocene units); these outcrops are present throughout the Pastos Grandes, Centenario and Pozuelos salars.

People

Centaur Resources has assembled a team of top technical talent with in-country experience of operating in Argentina across several early stage lithium projects. Centaur has the network required to operate successfully in an emerging market such as Argentina with the local and the track record of successfully creating value with early stage exploration projects.
Project Overview Business Structure

Centaur Resources Ltd

Centaur Resources Holdings Pty Ltd (100%)

Centaur Resources SAS (Trust) (100%)

Tenements Lobo Blanco Project (100%)
Business Vision

Centaur Resources aims to establish itself as one of the world’s foremost lithium production companies, through the acquisition and development of the Lobo Blanco Brine Project.

Post completion of the acquisitions, Centaur intends to generate shareholder value through optimizing each project’s capital structure, implementing disciplined operational improvements and undertaking targeted investments within the target’s operations and pursuing strategic “bolt-on” acquisitions to increase scale in the operating business to compete effectively and improve profitability.

Business Strategy

- Aggressive exploration program to upgrade define JORC resource and complete a Bankable Feasibility Study for a proposed 25,000tpa Lithium Carbonate industrial plant and 8,000tpa Lithium Hydroxide industrial plant. (16-8ktpa Lithium Carbonate alternative scenarios to also be considered)

- Demonstrate commercial viability of project through construction of Lithium Carbonate and Lithium Hydroxide Pilot Plants to send test samples to identified customers in China and the USA for market acceptance of output product.

- Exploration Target is 500,000t Lithium Carbonate Equivalent (“LCE”) Resource at Lobo Blanco.
  - Past drilling by Millennial Lithium has shown Li enrichment of 535mg/l over 381m with the brine horizon traced to 400m and remains open at depth.

- Scope for additional ‘bolt on’ acquisition projects to complement resource portfolio and existing operations.

- Utilise previous exploration and project development to fast track project development through aggressive exploration comprising of TEM survey followed by drilling and pumping tests. Following a successful exploration program Centaur intends to construct a Lithium Carbonate Pilot Plant facility at the Lobo Blanco site.
Globally significant lithium resources in Argentina: mapped

Source: Combination of internal and third party data, company reports

Note: Published resource estimates by project owners. Note that resources estimates for projects other than Centaur’s may have been prepared under different estimation and reporting regimes and may not be directly comparable. Centaur has not verified, and accepts no responsibility for, the accuracy of resources estimates other than its own. Readers should use appropriate caution in relying on this information.
Project Overview

Lobo Blanco
100%

Size: 10,032 Hectares
Grade: 400-600mg/Li
Below is an illustrative guide to the extraction process which has been successfully tested through the development and production of Lithium Carbonate at a pilot plant located in the city of Salta. This proven process is intended to be utilised by Centaur for the design and production of a pilot plant to be built at the Lobo Blanco Project for the production of Lithium Carbonate at a run rate of 1200t per annum. The design will also be used for the full industrial scale plant design.

After constructing PVC-lined evaporation ponds brine is pumped in from the Salar

Natural brines pumped into ponds are evaporated down to 3/10th for NaCl Removal.

Enriched brines are then pumped into pre-treatment plant for removal of magnesium, calcium and boron

Precipitate-free solution is concentrated by evaporation

Transfer liquid, finalize evaporation process and remove as lithium chloride to precipitation plant

99.9% Li₂CO₃
Production of lithium carbonate using demonstrated process
Project timeline to mine production

**Lithium Resource Estimation**
- Exploration and resource drilling
- Pumping well drilling and testing
- JORC resource

**Bankable Feasibility Study**
- BFS for 25ktpa Lithium Carbonate and 8ktpa Lithium Hydroxide project
- Project Financing

**Environmental Impact Assessment & Regulatory Approval**
- Environmental Monitoring
- EIA Submission
- Port, mine, rail & road permits

**Lithium Processing Test Work**
- Evaporation Pond Construction
- Pilot Plant Operation
- Brine Sampling and Testing
- Lithium Hydroxide Plant Design and Construction
- Verification of logistics capacity

**Lithium Carbonate 25ktpa Industrial Plant Construction**
- Processing plant construction
- Evaporation ponds construction

**Lithium Hydroxide 25ktpa Industrial Plant Construction**
- Processing plant construction

**Industrial Plant Start Up & Commissioning**
- Accumulation of brine in pond system
- Build up of circuit inventory

**Production Levels**
- Year 1: 25,000t LCE & 8,000t LiOH
- Year 3: 250,000t LCE & 450t LiOH
Services to be sourced by METS

- Laboratory services
- Design and manufacture of sampling and sample preparation equipment
- Camp Development
- Dust suppression
- Engineering consulting focused on water, energy, infrastructure & mining
- Multi-disciplinary EPC, EPCM for materials handling and minerals processing plants.
- Engineering, procurement and construction
- Drilling - contractors
- Drilling – operational
- Asset Management Services
- Logistics – Intermodal Solutions
- Mining Ops Equipment
- Plant maintenance and repair, including mobile plants
THANK YOU !
Valeria Ortiz
Business Development Manager
Austrade Santiago, Chile.
CHILE: MINING SECTOR OVERVIEW

- #1 Copper production and reserves
- #1 Lithium reserves
- Mining Investment portfolio: US$ 65 billion 2018-2027
- Chilean National Mining Program 2015-2035
- Direct employment 254,000 people
- 11 of top 20 global mining companies: BHP, Codelco, Antofagasta Minerals, Teck
- World’s 4th most popular investment destination, after Canada, Australia, USA
- 90 Australian METS with presence in Chile
- Codelco (Chilean State owned mining co.) accounts 9% of the global copper production

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Transitioning to Underground and Improving Productivity of Open Pit

Tailings Management

Intelligent Mining

Water management – Desalination Plants
1. Drones – geology inspection
2. Spills avoidance and belts cleaning
3. Large metal element crushers
4. Obstruction transfer chute
5. Eliminate blasting risk
6. Rheology tailings
7. Moisture mine waste
8. Energy efficiency water conveyor
9. Pipeline monitoring
10. Bottleneck conveyor belts
11. Emergency risk management
12. Online system for measuring gas hold up in cell columns
CHILE: PATHWAYS TO MARKET WITH AUSTRADE

• Exponor 2019 – Trade Show and Conference

• “Open Innovation” Opportunities

• METSTech Passport #2 (launching early 2019, Sept 2019)

• METS bootcamp (start-ups and scale ups May 2019)

• Market entry services (market research; partner/distributor search; visit program to customers)
Patricio Pastorelli
Expande Open Innovation
International Engagement Manager
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By Expande

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Fostering Open Innovation

By Expande

Leverage the challenges of the mining industry to develop a knowledge-intensive industry of technological suppliers.
HIGHLIGHTS

BIG NUMBERS

70% Chilean copper production

20% Worldwide copper production

USD 25 Billion Copper exports

4 Clients

Codelco

BHP

Antofagasta Minerals
HIGHLIGHTS
FUNDING

PRIVATE

CODELCO
BHP
ANTOFAGASTA MINERALS

PUBLIC

expande
IDB
CORFO

50%
50%
HIGHLIGHTS
HOSTED BY FUNDACIÓN CHILE

Mining

Sustainability (Water & Energy)

Food & Biotech

Entrepreneurship & V.C.
HIGHLIGHTS
PRODUCTIVITY & INNOVATION

TECHNOLOGY MANAGEMENT
- Identification, Management and promotion of challenges
- Technology Transfer
- Technology Mapping
- Ecosystem Linkage

BUSINESS MANAGEMENT
- Investment & Financing
- Scale-up
- Portfolio Management

Supplier Development
Mining Productivity
HIGHLIGHTS
OPERATION MODEL

Innovation Ecosystem

Support Scaling Investment & Financing

Operational Challenges
Validated Technologies & Development
Scouting
Innovative Technologies

Mining Companies
Large Suppliers
SME’s
Large Suppliers
Start-Ups
Accelerators
Research Centers
International Network
HIGHLIGHTS
2017 HIGHLIGHTS (Y1)

- Technologies scouted: 843
- Technologies recommended: 124
- Pipeline contracts: USD 30 MM
- Operational challenges managed: 50
- Contracts awarded: USD 10 MM
- Challenges
MINING OPERATIONAL CHALLENGES

By Expande

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CHALLENGES
DECEMBER 2018 / JANUARY 2019

Efficient removal of water in the bottom of the mine

Bottleneck in conveyor belt transfer

Online measurement system hold up of gas in cells columns

Greater performance & efficiency in the loading and transport process
Ensuring continuous traceability of material characteristics throughout the entire production process.

Ensuring comprehensive emergency management and rapid response to contingencies.

Remote monitoring of idlers conditions.

Reliability of loading equipment.
CHALLENGES
DECEMBER 2018 / JANUARY 2019

Dump formation optimization

HACKATHON
Optimize Mine to mill bottlenecks
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