



Blawn Mountain UTAH

Nov 2018

SOPerrior

FERTILIZER CORP.

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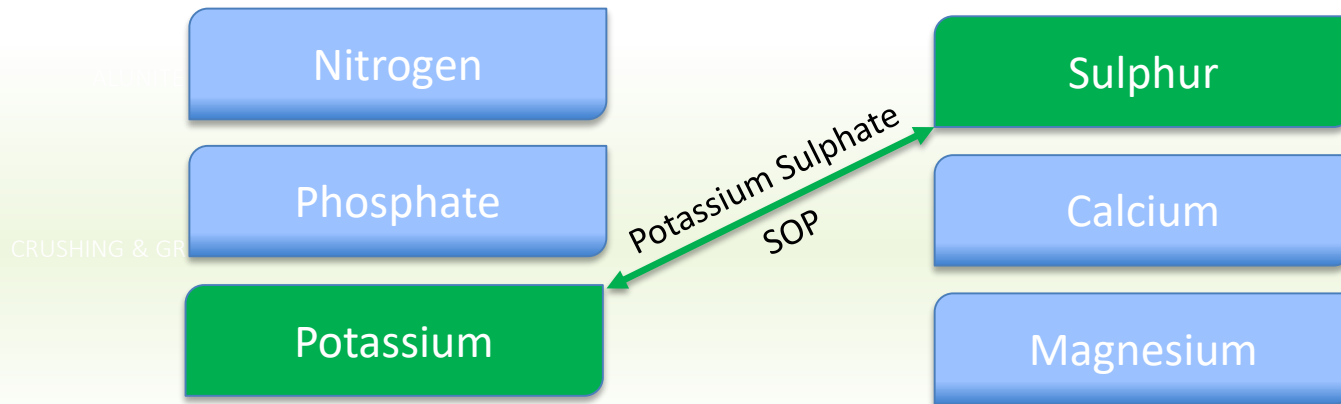


SOPerior

FERTILIZER CORP.

SOPerior is bringing a large scale potassium sulphate (**SOP**) fertilizer projects into production at **Blawn Mountain, Utah, USA**

POTASSIUM SULPHATE: Two Macronutrients in One



| |
|---|
| Potassium Sulphate (SOP) K_2SO_4 |
| Low chloride, high Sulphur |
| Significant benefits for fruits, vegetables, nuts |
| Improves yield, taste, appearance and shelf life |
| |
| |

SOP: superior product with attractive market

| SOP (K ₂ SO ₄) | MOP (KCl) |
|---|--|
| Significant benefits over MOP for fruits, vegetables, nuts, potatoes, tobacco – many other high value crops | Primarily for corn and grain crops that can withstand chloride |
| Global market 5 million tpy , with potential market demand of 10 million tonnes ⁽¹⁾ | Global market 55 million tpy |
| Fundamental supply deficit – limited ability to significantly grow production using existing production processes | Market is in over supply, with idle capacity and multiple projects in pipeline |
| Low chloride, high sulphur – providing benefits to crops not available with MOP | Contains chloride – no nutrient value; in many instances detrimental to plants |
| Improves yield, taste, appearance and shelf life; ideal for salty or sandy soils or arid climates | Chloride can leach into groundwater or build-up in arid soil conditions, impacting yields and crop quality |
| | |

⁽¹⁾ Per CRU



Peach and grape leaves suffering salt (chloride) damage



100lb/acre

200lb/acre

300lb/acre

Which one are you buying?





CHEMICAL REACTION: Mannheim Process

85% of all SOP produced uses Mannheim Process
Used in Asia, Middle East and Europe
Soluble and granular form



MINERAL PROCESSING: Alunite

Proven process
Soluble and granular form



**BLAWN MOUNTAIN
(Utah)**



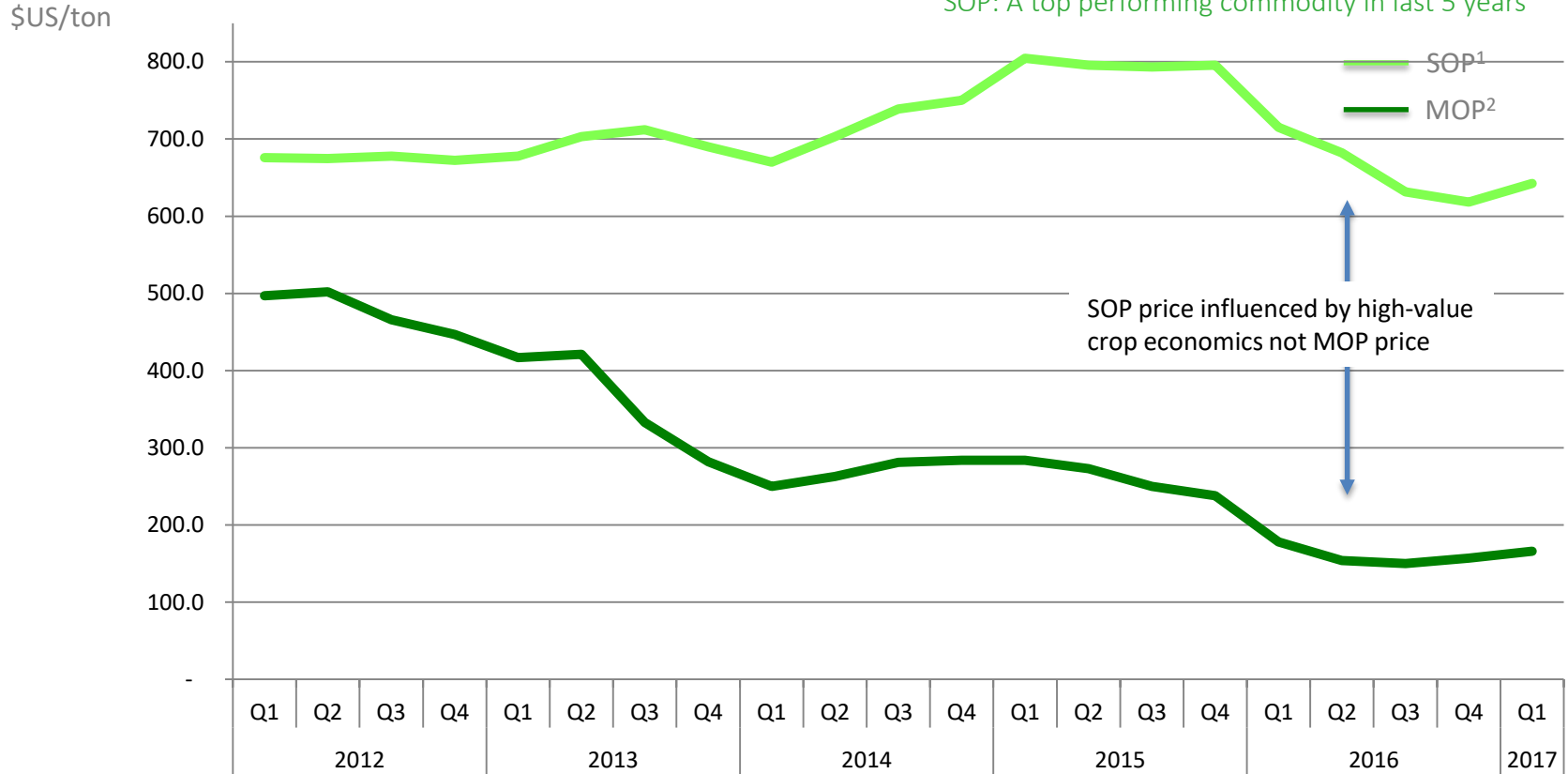
EVAPORATION: Salt Lake

15% of global supply from this method
Finite resource
Found in USA, Chile, China, Europe
Granular form

SOP: SUPERIOR PRODUCT WITH ATTRACTIVE MARKET DYNAMICS

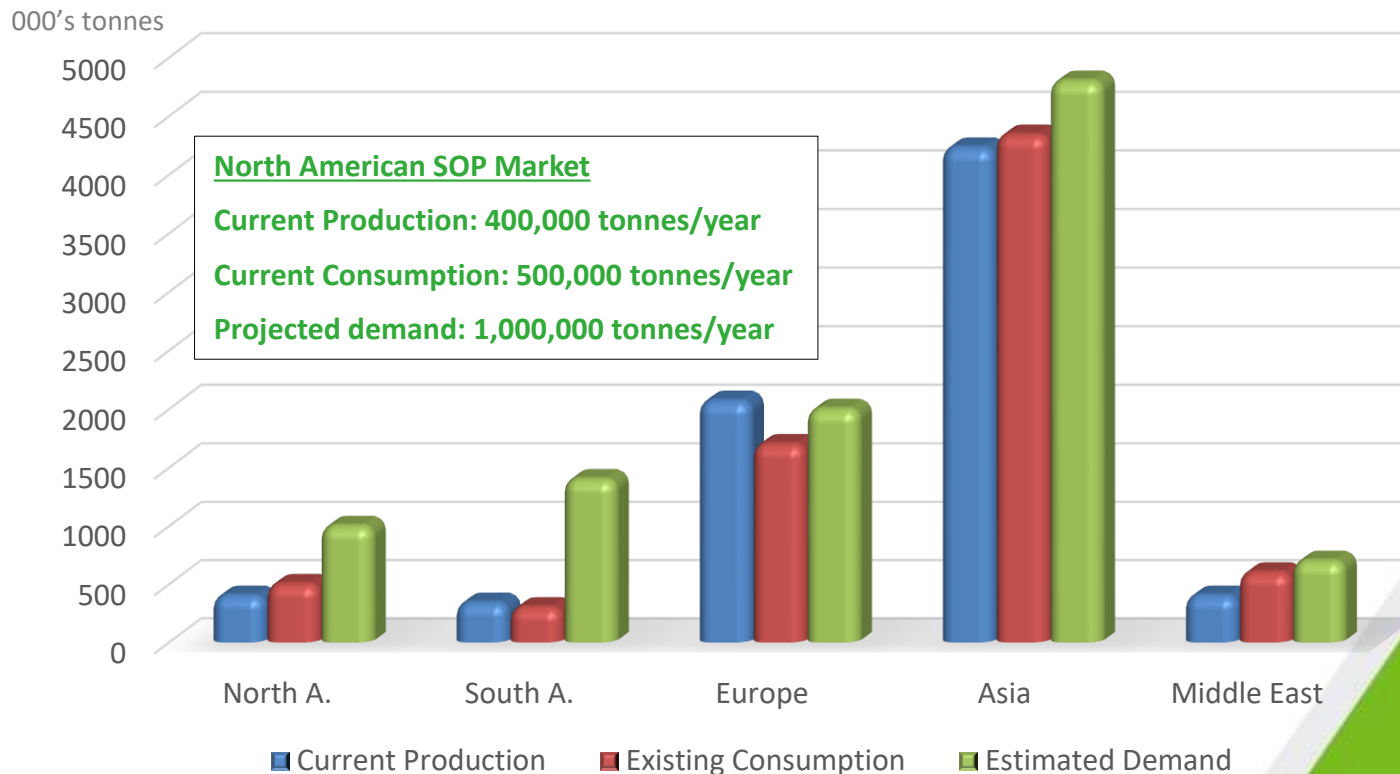


SOP: A top performing commodity in last 5 years

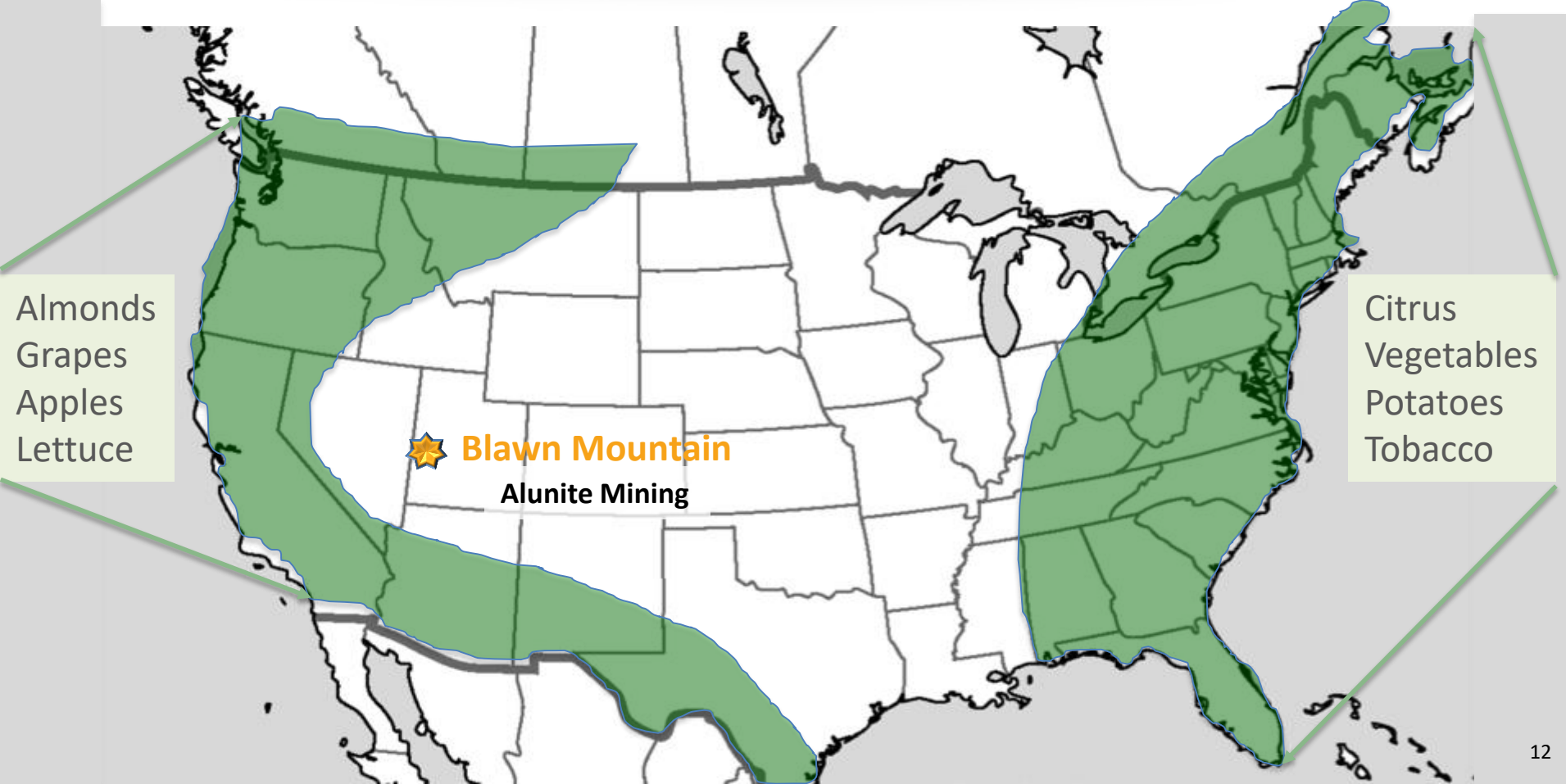


¹ Compass Minerals Q1 2017 Report, ² Potash Corp Q1 2017 Report

North America is Under-served



STRATEGICALLY LOCATED TO SERVE SOP-DEMANDING CROPS



Almonds
Grapes
Apples
Lettuce

Blawn Mountain
Alunite Mining

Citrus
Vegetables
Potatoes
Tobacco

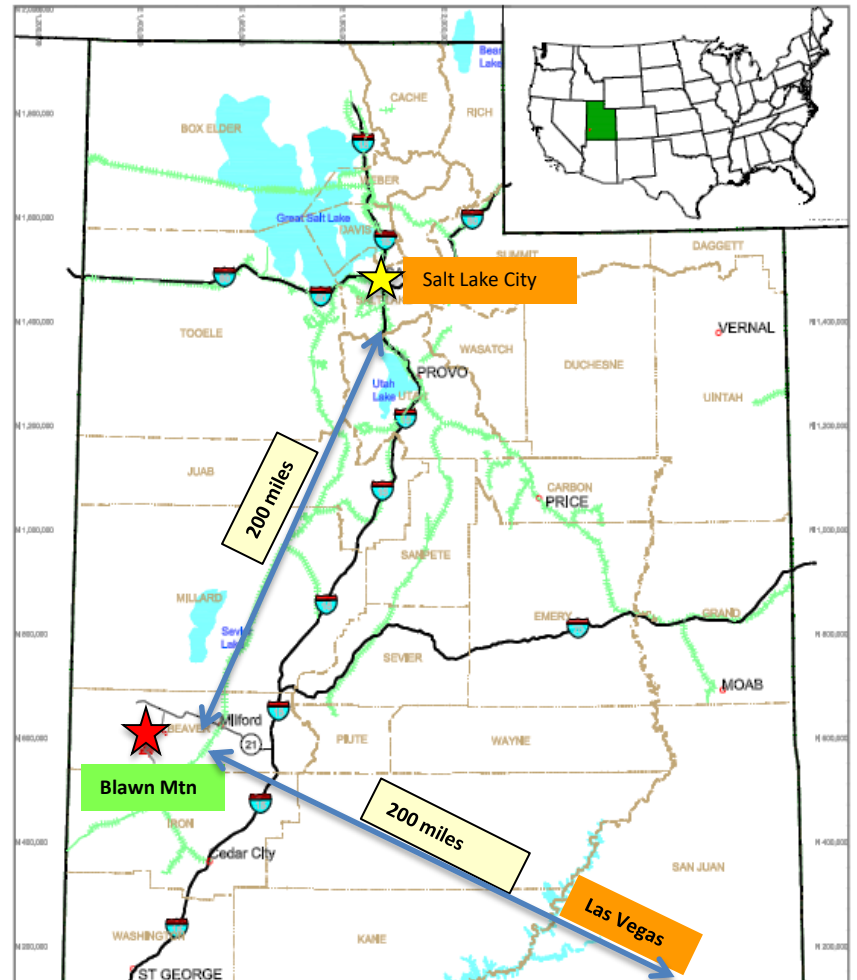


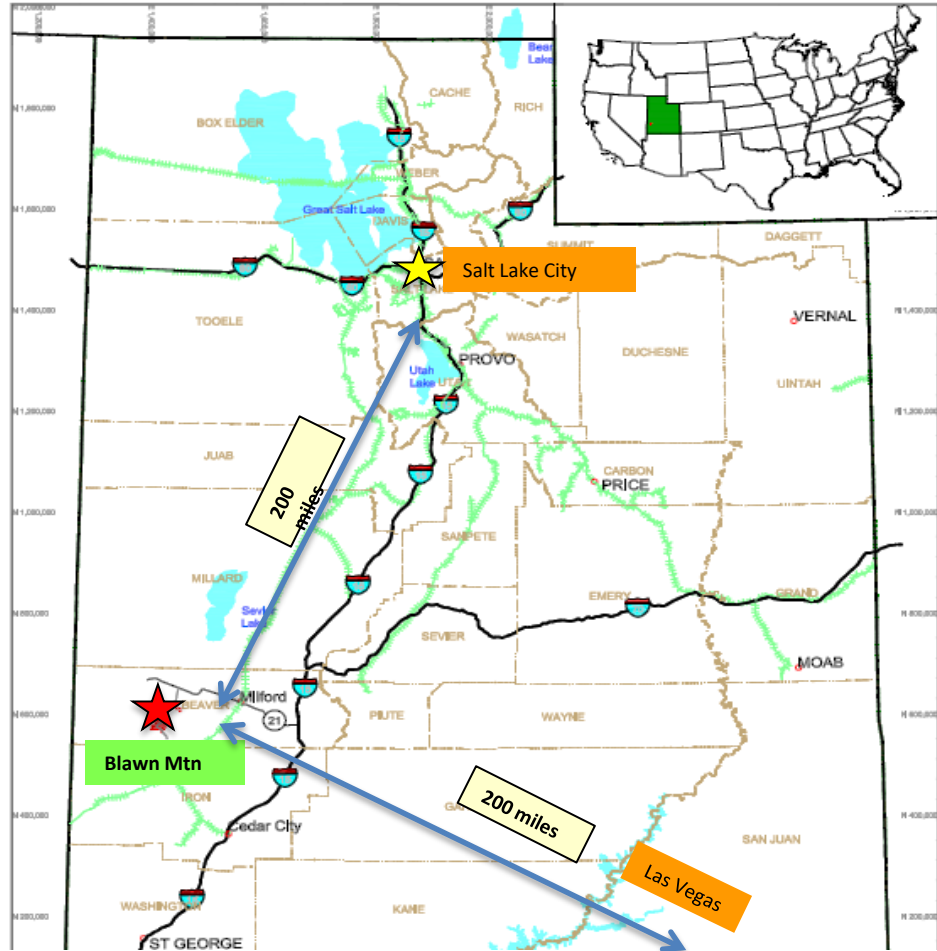
**Value
Proposition**

- SOP is highly sought after premium fertilizer
- 1.5 million tonnes of unmet global demand
 - Includes 500k tonnes of unmet demand in North America
 - Only one existing producer North America
- Blawn Mountain Project – potential lowest cost producer in North America

Blawn Mountain *(Utah)*

- Alunite Mining
- 230,000 tpy of SOP (downscaled 1st stage)
- 645,000 tpy potential
- Lowest cost producer in North America (US \$177/ton)
- < 3 years to production
- \$456 million CAPEX
- US \$107 million annual cashflow
- NPV (after tax 10%) US \$489 million
- Upside from expansion potential and alumina resources i

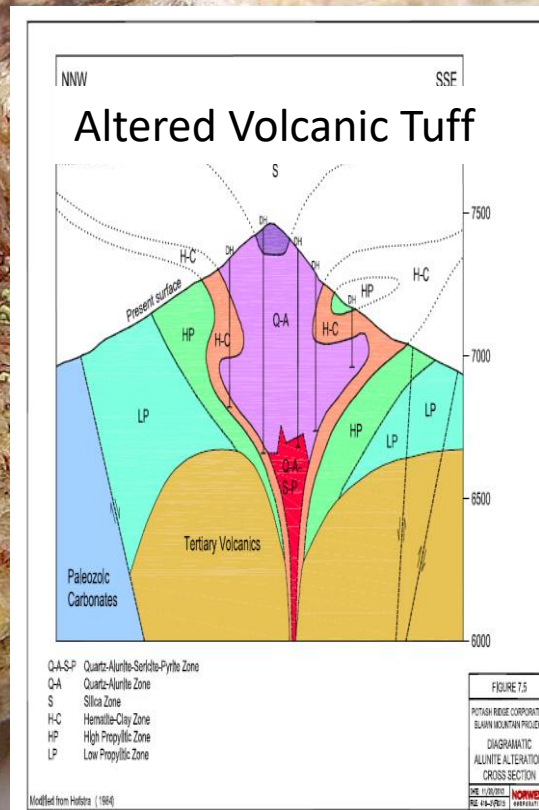


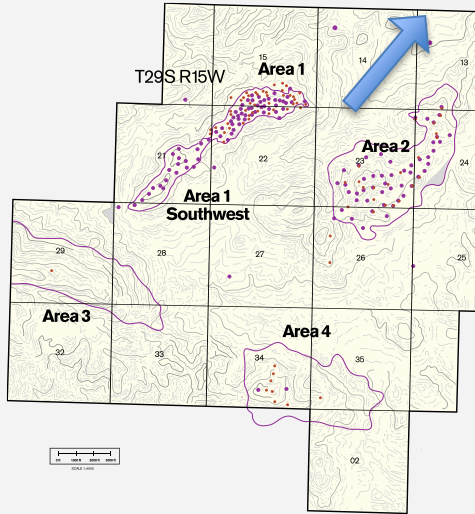


BLAWN MOUNTAIN PROJECT : Alunite - SOP and Alumina source



- Alunite : $KAl_3(SO_4)_2(OH)_6$
- Geologic characterization : Altered Volcanic Tuff
 - Alunite mineralization along ridge tops
 - Host tuff thickness over 1000 ft
- Very rare to find such a large formation on surface
- Blawn Mtn Alunite deposit initially discovered in 1969 & evaluated for Alumina in 1970's/80's
 - 320 drill holes completed
 - Project discontinued due to suppressed Alumina prices in 1980's
- Project acquired by Potash Ridge in 2011 , SOP primary target
 - Additional 90 drill holes completed in 2012/2013





- 1 Area 2 Mining Zone
- 2 Processing Plant Location
- 3 Access Road
- 4 Area 1 Mining Zone
- 5 Ore Test Pit

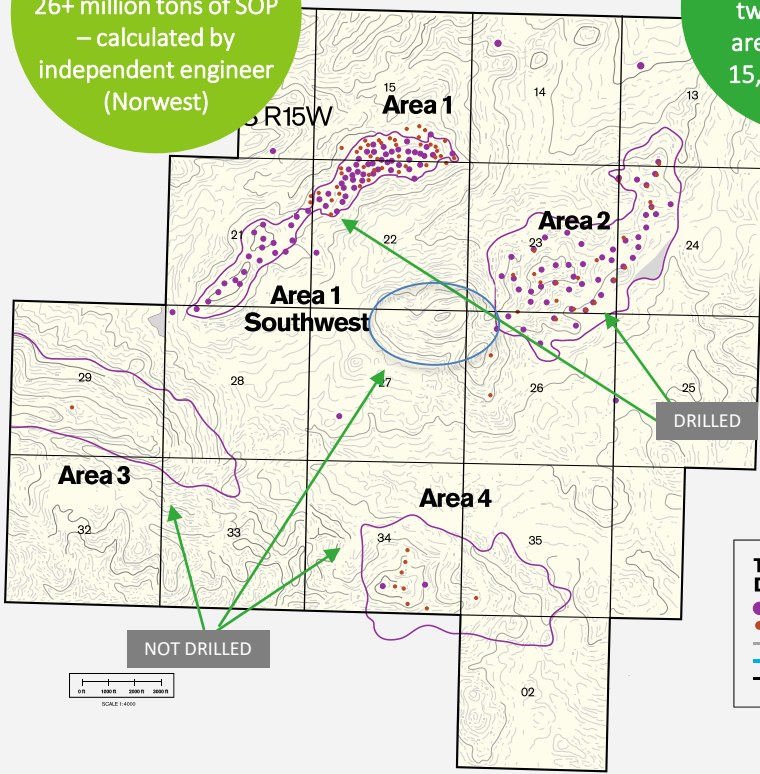


- 100% state-owned land
- Strong state government and local support
- All necessary infrastructure nearby

⁽¹⁾ Fraser Institute, 2016

Drilling work to date has established 26+ million tons of SOP – calculated by independent engineer (Norwest)

Drilling to date has focused only on two of the four areas within the 15,400 acre land position



Topography and Drill Hole Locations

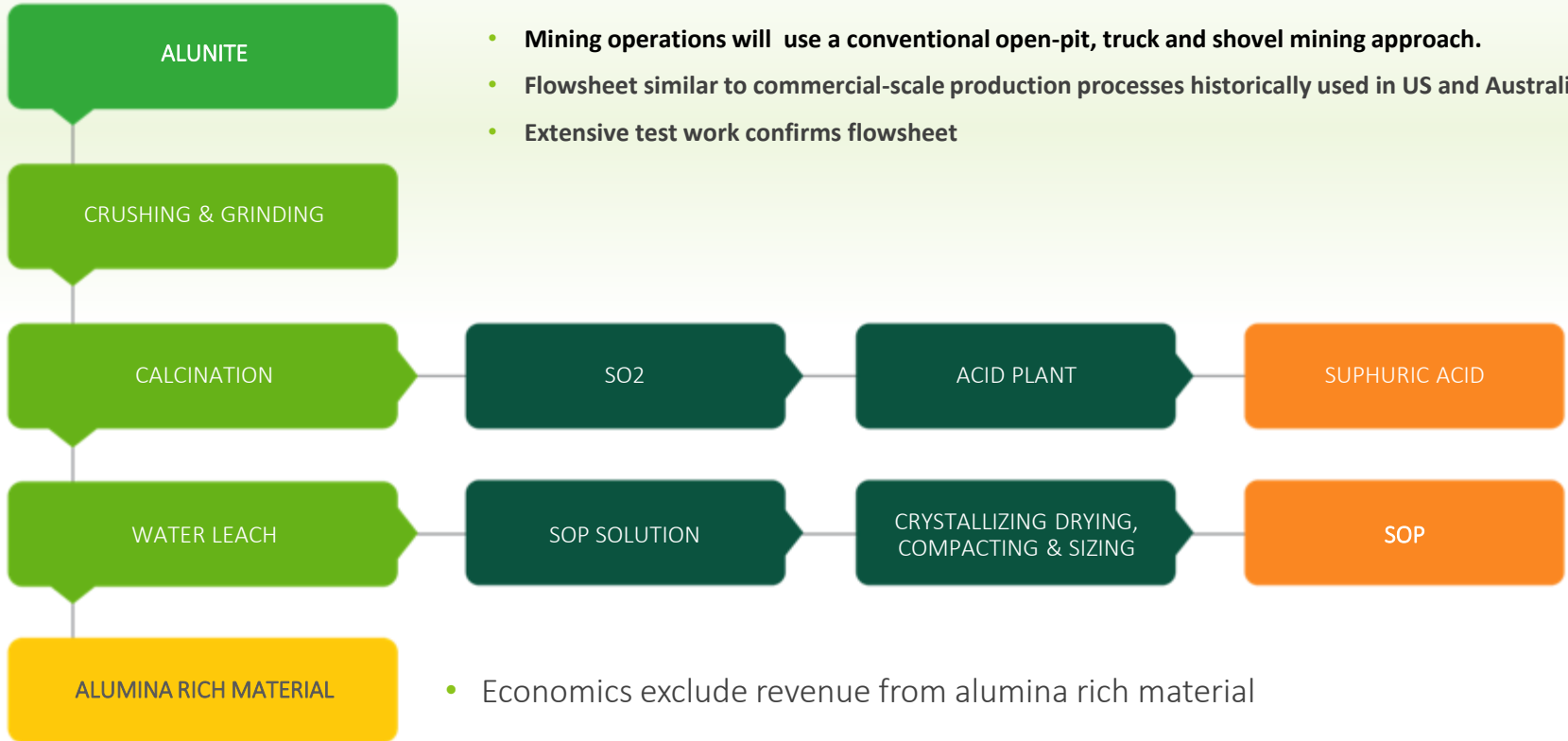
- Potash Ridge Drill Holes
- Historic Drill Holes
- Section Lines
- Alunitic Zone
- Lease Boundary

NI 43-101

Mineral Reserves by Category
November 6, 2013

| | Reserve Category | | Total |
|--|--------------------|----------------------|---------|
| | Proven ('000 tons) | Probable ('000 tons) | |
| Alunitic Ore (ROM tons) | 136,254 | 289,540 | 425,794 |
| Ore (average K ₂ O (%) grade) | 3.56 | 3.49 | 3.51 |
| Ore (average K ₂ SO ₄ (%) grade) | 6.59 | 6.46 | 6.49 |
| SOP (tons) | 8,457 | 17,970 | 26,427 |
| Sulphuric Acid (tons) @ 98% Purity | 18,888 | 40,136 | 59,024 |

Common industry accepted mining & processing techniques



- Mining operations will use a conventional open-pit, truck and shovel mining approach.
- Flowsheet similar to commercial-scale production processes historically used in US and Australia
- Extensive test work confirms flowsheet

- Economics exclude revenue from alumina rich material

The following table identifies the **major permits and approvals** that the Corporation has or still needs to obtain prior to construction:

| PERMIT/APPROVAL | ISSUING AGENCY | COMPLETED |
|---|--------------------------------------|-------------------------|
| Exploration Permit | Utah Division of Oil, Gas and Mining | October, 2011 |
| US Army Corps of Engineers Jurisdictional Waters Concurrence | US Army Corps of Engineers | March, 2014 |
| Groundwater Permits | Utah Division of Water Quality | July, 2014 |
| Large Mine Operation Approval | Utah Division of Oil, Gas and Mining | August, 2014 |
| Water Rights | Utah State Engineer | August, 2014 |
| Air Quality Emission Standard | Utah Division of Air Quality | <i>Pre-Construction</i> |

Air Quality Emission Standard requires the engineering to be partially completed before the application is filed. It is technically not a permit, but more an agreed upon emission target that the Project must be designed to meet.

○ **Prefeasibility Study completed by Norwest in December 2013**

Initial project design capacity was **645,000 tpy SOP** , **1.4M tpy sulfuric acid**
 \$1.124 B Capital cost
 IRRat 20.5%
 NPV10at \$1.0 B
 \$221M/yr cashflow
 P+P reserves support 40 years mine life,

○ **Revised Prefeasibility Study completed by Norwest in April 2017**

assessed the potential to phase project to reduce up-front capital cost
 230,000 tpy SOP 524,000 tpy Sulfuric Acid

\$107M/yr cash flow

Project life constrained to 46 years facility life (153M P+P reserves)

○ 19.4 million tons of Alumina resource will be produced over life of project.

**Scaled down project
230,000 tpy SOP**

PFS Economic Summary (US\$)

Initial capital cost \$456 million

IRR (unlevered after tax) 20.1%

NPV (after tax at 10%) \$489.0 million

SOP price/ton \$675

Opex/ton^(1,2) \$177

⁽¹⁾ Net of acid credit and excluding royalties.

⁽²⁾ Includes \$44/ton transport costs

- Tailings include **19.4 million tons** of measured & indicated alumina resources over life of mine
- Not valued in NPV
- Metallurgical testing to be undertaken to assess potential as:
 - Bauxite substitute,
 - Requires gamma phase alumina (600C calcining temperature)
 - Potential for higher value products
 - concrete additive or other industrial applications
 - alpha phase alumina suitable (1000+C calcining temperature)
 - Lower value product for alumina rich tailings
 - Large volume > 3 Million tpy of tailings

- Will be lowest cost producer in North America
- Focused on serving California market with soluble SOP
- Initial production rate of 255,000 tons per year
- 46+ years proven + probable reserves
- Permits and water rights secured
- Off-take for sulphuric acid byproduct secured
- All infrastructure within 30 miles
- Tailings include 19.4 million tons of alumina resources

ANDREW SQUIRES

Chief Executive Officer

Mr. Squires brings over three decades of international resource development experience in the energy and natural resources industries. In this time, he has established a proven history of success in creating strong management teams and helping grow new resource ventures into prosperous operations. His entrepreneurial spirit combined with his technical, operational, and financial knowledge have led to success in helping create value in the resource development sector. Of recent note, Mr. Squires was part of the original executive team of Osum Oil Sands Corp., a successful junior oil sands company, in which he was instrumental in creating the team and helping raise over \$1 billion in private equity taking the company to commercial production. Prior to starting Osum Oil Sands, Mr. Squires worked for his own consulting firm providing services for clients including Exxon, Aera, BP, Pemex, PetroCanada, PanCanadian and Chevron. Mr. Squires' engineering and management skills were honed working for companies such as Dominion Exploration, Paramount Resources, Pioneer Natural Resources and Amoco.

OLGA NIKITOVIC

Chief Financial Officer

Ms. Nikitovic is a Chartered Professional Accountant and management consultant with over 30 years of work experience. Ms. Nikitovic worked at PricewaterhouseCoopers in both the audit and management consulting departments. While consulting, Ms. Nikitovic specialized in re-engineering and cost management. After leaving PricewaterhouseCoopers Ms. Nikitovic held senior management positions with two of Canada's largest retailers. At present, Ms. Nikitovic is the Chief Financial Officer for a number of private and publicly traded mining companies. In the potash space, Ms. Nikitovic was instrumental in the sale of AusPotash Corporation in 2008 to a UK publicly listed Company.

DIVERSE, EXPERIENCED SKILL SETS

- **BRUCE DUNCAN** *Chairman*

Mr. Duncan has over thirty years experience in the capital markets and brokerage industry, including eight years with Gordon Capital Corporation. Mr. Duncan is currently the President of West Oak Capital Partners Inc., which provides strategic advisory services, including identifying and qualifying merger and acquisition candidates and advising in public transactions. Mr. Duncan has extensive capital markets experience, including capital raising, and mergers and acquisitions.

- **ARTHUR ROTH** *Vice Chairman*

Mr. Roth's career spans fifty years, focused predominately in the fertilizer and chemical industry. Since 1985, A.J. Roth & Associates has provided business consulting and other services to the agribusiness, fertilizer, and selected non-metallic minerals industries, providing proprietary consulting assistance to more than 75 clients in the United States, Canada, Latin America, Europe, China, India, Thailand and Japan. Mr. Roth has held executive positions with I.C. Potash Corporation, International Minerals & Chemical Corp. (now Mosaic Co.), AMAX Chemical Corporation and Helm Fertilizer Corporation.

- **RICHARD KLUE** *Director*

(Edward) Richard Klue is a Fellow of the South African Institute of Mining & Metallurgy (SAIMM), a Metallurgical Engineer by profession and holds a B-Commerce degree. Mr. Klue has been in the mining minerals and metals industry for more than 35 years with the first 18 years in operations, capital & sustaining capital projects, and the latter 18 years dedicated to project, program development and management. His experience involves the full life cycle of mining – geology, permitting, environmental, mining, processing, infrastructure, tailings, operations, maintenance and closure.

- **ANDREW SQUIRES** *Director, President and Chief Operating Officer*



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