

AMERICAN CRITICAL MINERALS

OCTOBER 2026

CSE: KCLI | OTCQB: APCOF | FRA: 2P3

www.acmineralscorp.com

Fueling American Independence

Working to Fuel And Feed America from the Heart of Utah

Forward Looking Statements

This presentation contains forward-looking information or forward-looking statements within the meaning of applicable securities legislation. All statements, other than statements of historical fact, are forward-looking statements and are based on expectations, estimates and projections as at the date of this presentation. Any statement that involves discussion with respect to predictions, expectations, beliefs, plans, projections, objectives, assumptions, future events or performance (often, but not always using phrases such as "plans", "expects", "is expected", "budget", "scheduled", "estimates", "forecasts", "intends", "anticipates", or "believes" or variations (including negative variations) of such words and phrases, or state that certain actions, events or results "may", "could", "would", "might" or "will" be taken, occur or be achieved) are not statements of historical fact and may be forward-looking statements. In this presentation, forward-looking statements relate, among other things, to: statements with respect to the Company's future plans and potential of its mineral properties; anticipated drilling at the Green River Project; and prospective funding of the Company.

Although the Company believes that such statements are reasonable, it can give no assurances that such expectations will prove to be correct. All such forward-looking statements are based on certain assumptions and analyses made by the Company in light of their experience and perception of historical trends, current conditions and expected future developments, as well as other factors management believes are appropriate in the circumstances. Forward-looking statements also involve known and unknown risks, uncertainties and other factors which may cause the actual results, performance, or achievements of the Company to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements. Important factors that could cause actual results to differ from this forward-looking information include those described under the heading "Risks and Uncertainties" in the Company's most recently filed MD&A.

Forward-looking information contained herein are made as of the date of this presentation and the Company does not intend, and expressly disclaims any obligation to, update or revise the forward-looking information contained in this presentation, except as required by law. There can be no assurance that forward-looking statements will prove to be accurate, as actual results and future events could differ materially from those anticipated in such statements. Accordingly, readers should not place undue reliance on forward-looking statements.

References to Exploration Targets throughout this presentation are conceptual in nature and there has been insufficient exploration to define them as Mineral Resources, and, it is uncertain whether further exploration will result in the determination of a Mineral Resource under NI 43-101. The Potash, Lithium, and Bromine Exploration Targets are not being reported as part of any Mineral Resource or Mineral Reserve. For further information, please see technical report titled "Amended and Restated NI43-101 Technical Report Green River Potash and Lithium Project Grand County, Utah USA" dated January 27, 2026 available under the Company's SEDAR+ profile at www.sedarplus.ca.

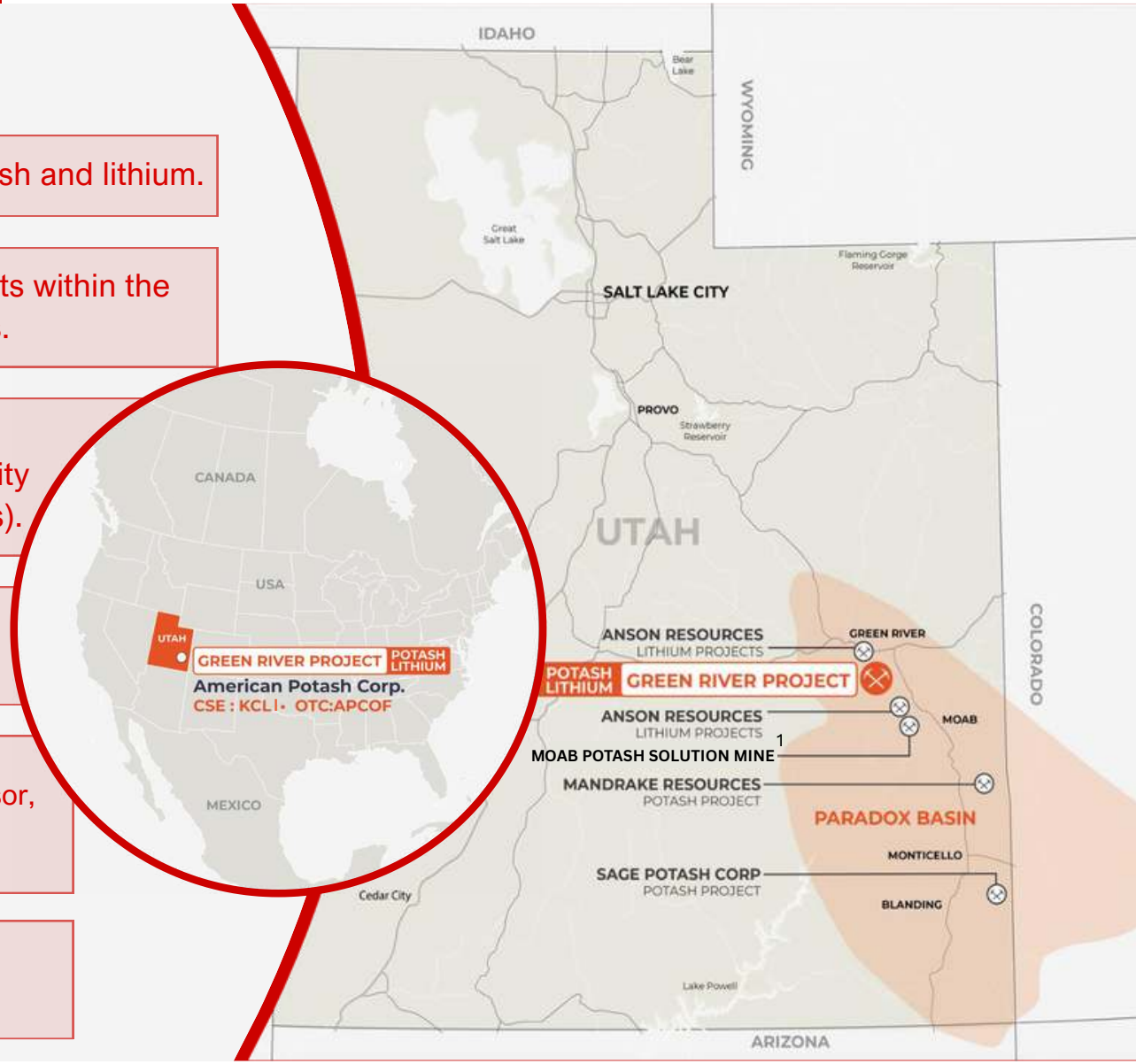
Dean Besserer, P.Geo., a qualified person within the meaning of NI-43-101 has reviewed and is responsible for the technical details of this presentation.

American Critical Minerals cautions that results or discoveries on properties in proximity to the American Critical Minerals' properties may not necessarily be indicative of the presence of mineralization on the Company's properties. All information regarding other companies and/or projects contained in this disclosure has been drawn from publicly available sources. The Company has no affiliation to any of the aforementioned companies and/or projects.

The Company has no affiliation to Intrepid Potash or the Moab Mine.

American Critical Minerals

Dual Exposure	Single asset with exposure to two strategic minerals: potash and lithium.
Super Basin	Developing large-scale potash, lithium, and bromine targets within the Paradox Basin, Utah, one of the world's key potash basins.
Peer Validation	Large-scale potash production 30km away. Adjacent advanced lithium development advancing through feasibility and small scale mining permit approval (Anson Resources).
Defining Milestone	Inaugural drill program complete - results expected in November 2026.
Key Differentiator	CEO, Dean Pekeski brings 17+ years of potash exploration and development experience including projects in Utah. Senior Advisor, Simon Clarke took American Lithium to $1.2B valuation with 10+ years running Critical Minerals projects.
Funding Potential	Increasing U.S. government focus on securing domestic critical minerals and fertilizer supply chains.



*Please see Note on Exploration Targets in "Forward Looking Statements" on Page 2.
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The Paradox Basin: A Potash and Lithium Exploration Hotbed – The Only US Super Potash Basin

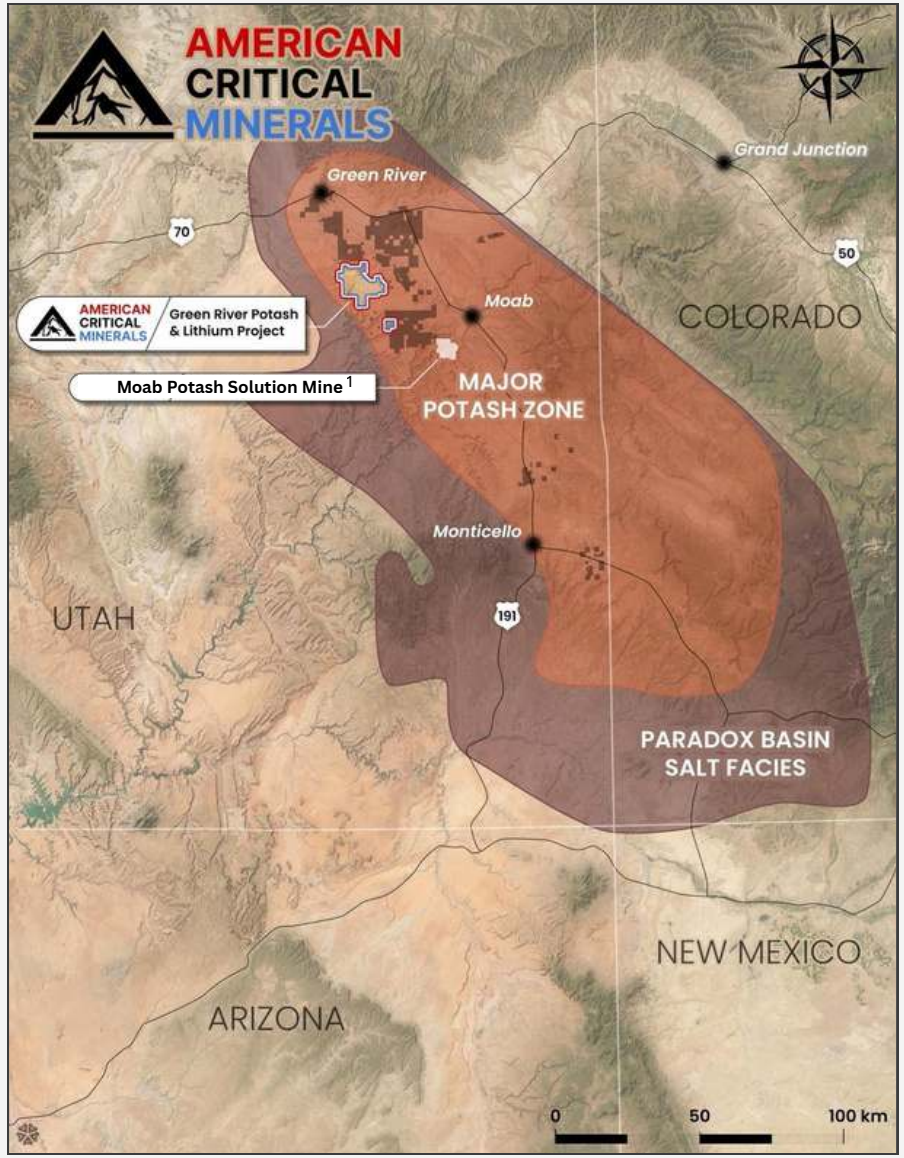
What is a Super Basin?

- A super basin is a large, geologically favourable sedimentary basin that hosts multiple world-class (Tier 1) potash deposits, typically in flat-lying formations that support low-cost, large-scale extraction.
- Super Basins are defined to have the potential to produce a 1Bt of potash.
- These basins underpin global potash supply in regions such as Canada, Belarus, and Russia.

The Green River Project is located within the historic Paradox Basin which contains:

- **Established and ongoing Potash production**
- **Large established resources for Lithium & Successful Pilot**
- **Large Exploration targets for Potash, Lithium and Bromine**

The geologic province known as the Paradox Basin extends approximately 160 km (100 miles) in width and 320 km (200 miles) in length in a northwest- southeast direction spanning southeastern Utah and southwestern Colorado.



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The Green River Potash and Lithium Project

100% interest

The Project Spans 32,500 Acres

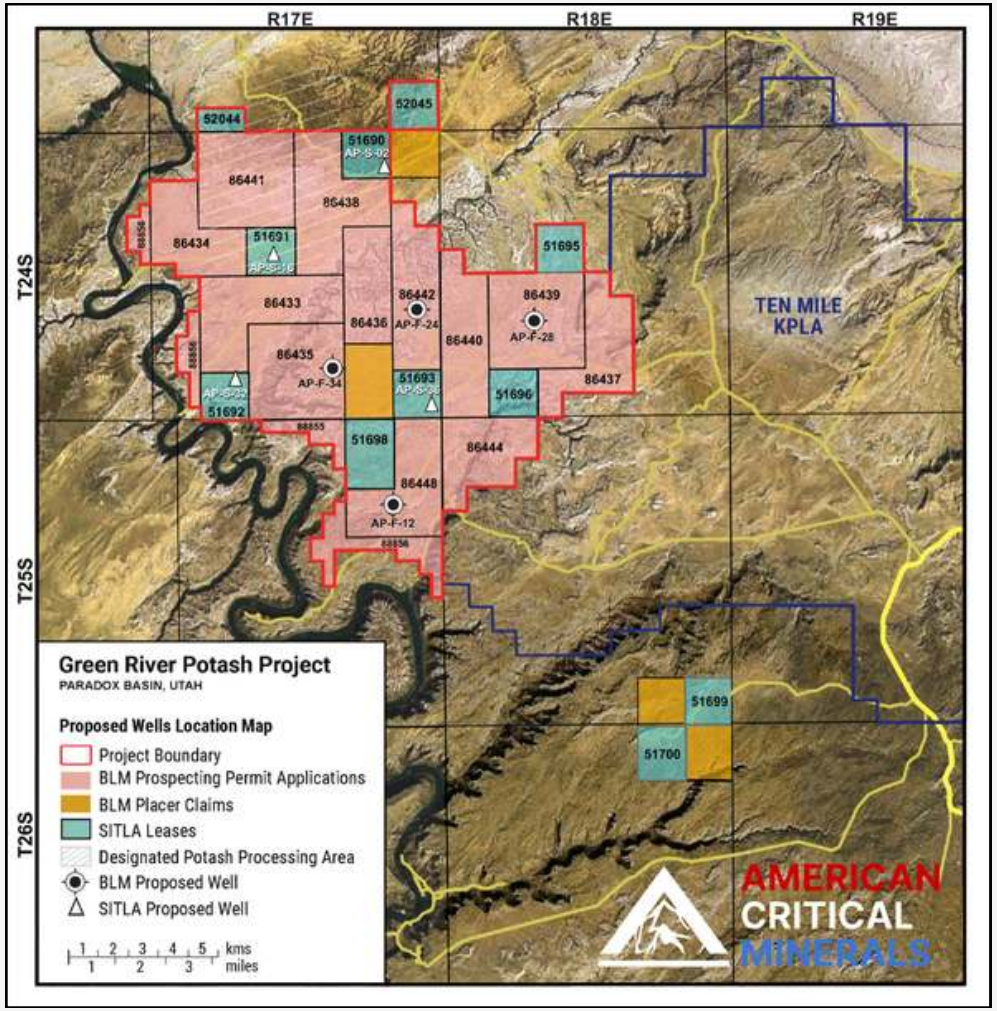
- 11 State of Utah Potash and Lithium leases totaling 7,050 acres
- 1094 Federal Lithium brine claims (21,900 acres)
- 11 Federal Potash Prospecting Permits covering 25,000 acres

7 Permitted Wells on the Project

- 4 Wells permitted on BLM land
- 3 Wells permitted on State land

Location and Infrastructure

- Rail, roads, power, and water proximal to site
- Access to local labor with Moab and Green River 20km away



Regional Pedigree Validated by Peers

Moab Potash Solution Mine[1]

Producing nearby for over 50 years from the same potash cycles.
Successfully mining using Solution Mining recovery

- Cycle 5 is in 'Goldilocks Zone' for potash mining optimum depth (5,000 ft) that balances out brine temperature with drill costs/complexity.
- Cycle 5 has been mined since 1963.

Anson Resources (ASX-ASN)

Anson Resources is developing two blocks that bookend the American Critical Minerals' land claims.

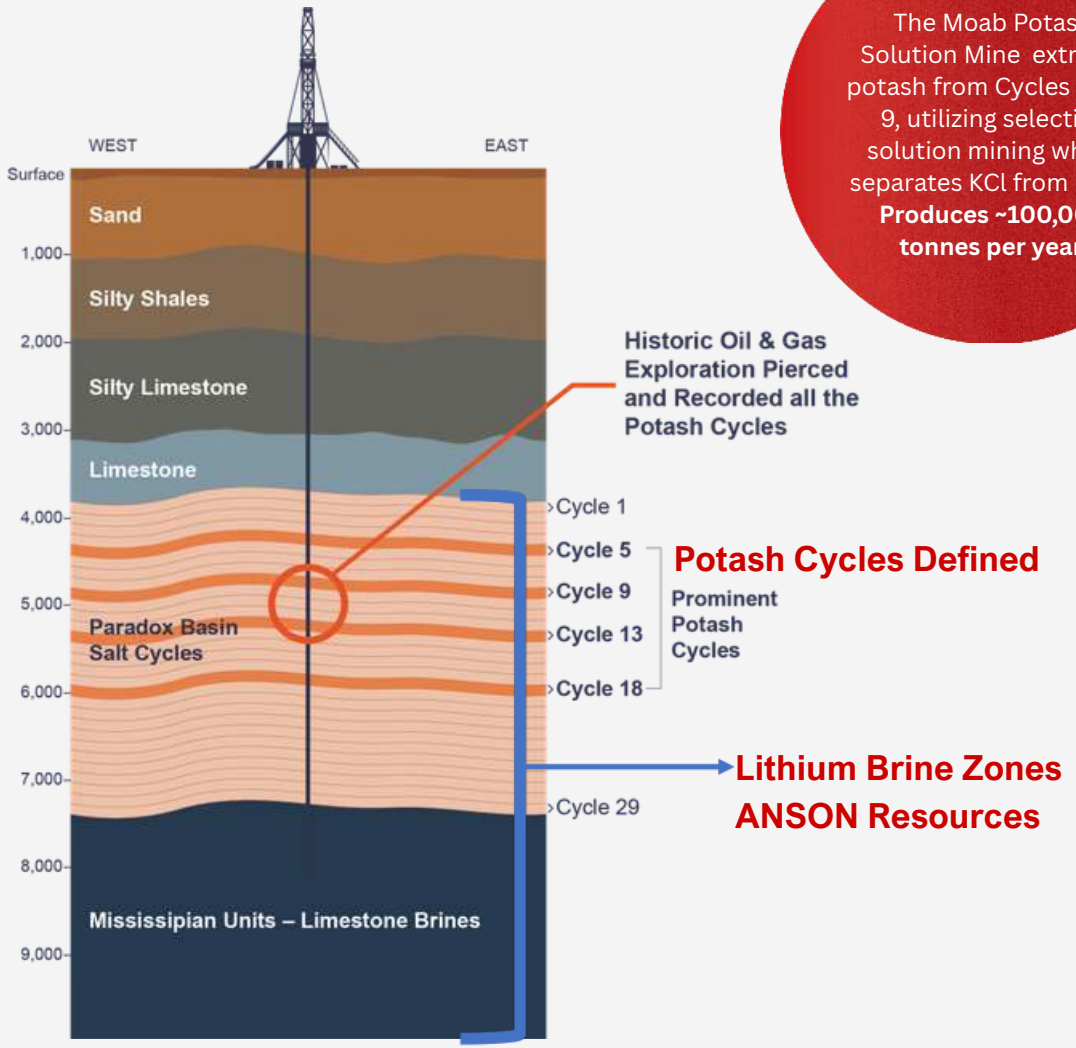
The Green River Lithium DLE Project is well advanced and borders KCLI's project on the north.

- JORC Resource: 773,000t of contained LCE
- Well advanced moving into Feasibility and has now received all major government permits for its planned 10,000 tpa lithium carbonate plant (July 2026)

The Paradox Lithium Project is located to the south and host a JORC resource of 1.5Mt LCE but is optionality on the more advanced Green River Lithium DLE Project.

The Moab Potash Solution Mine extracts potash from Cycles 5 and 9, utilizing selective solution mining which separates KCl from NaCl. **Produces ~100,000 tonnes per year.**

1



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The Potash Opportunity

Favorable Geology for Thick High-Grade Resources

The Green River Project is in the Heart of the best fairway for Potash in the Basin

Exploration Target

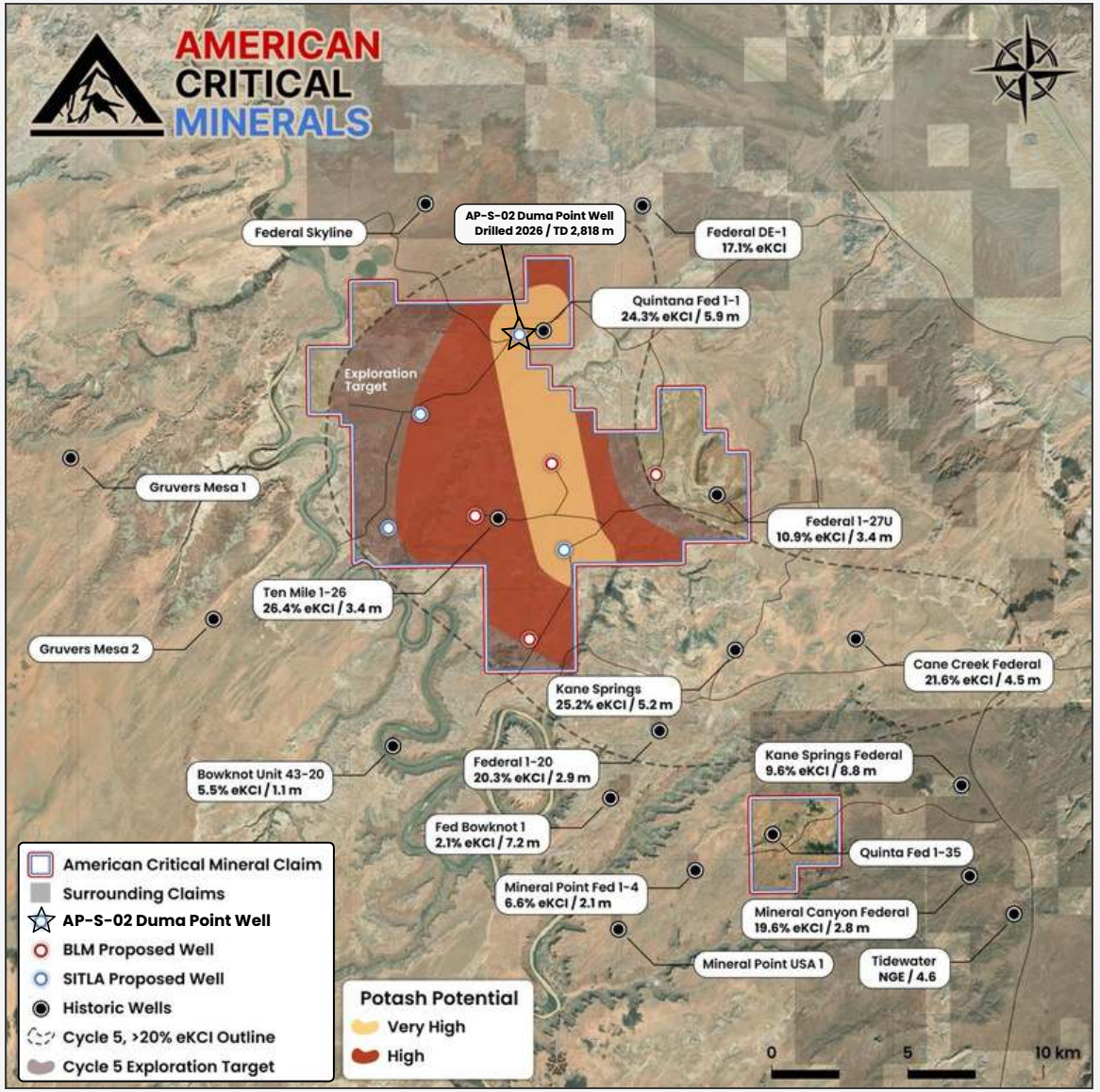
500 to 950 million tonnes of sylvinite eKCL (Potash) Grade 19%-29%

- Key Rock Units: Potash Cycle 5, 9 and 18

Historic Wells

There are 22 historic oil and gas wells drilled within or adjacent to our acreage with good downhole e-logs that show the presence of potash mineralization.

- **Two wells on the Green River Project intercepted 3.4m @ 26.4% eKCl and 5.9m @ 24.3% eKCl**



*Please see Note on Exploration Targets in "Forward Looking Statements"

The Potash Opportunity

Favorable Geology for Thick High-Grade Resources

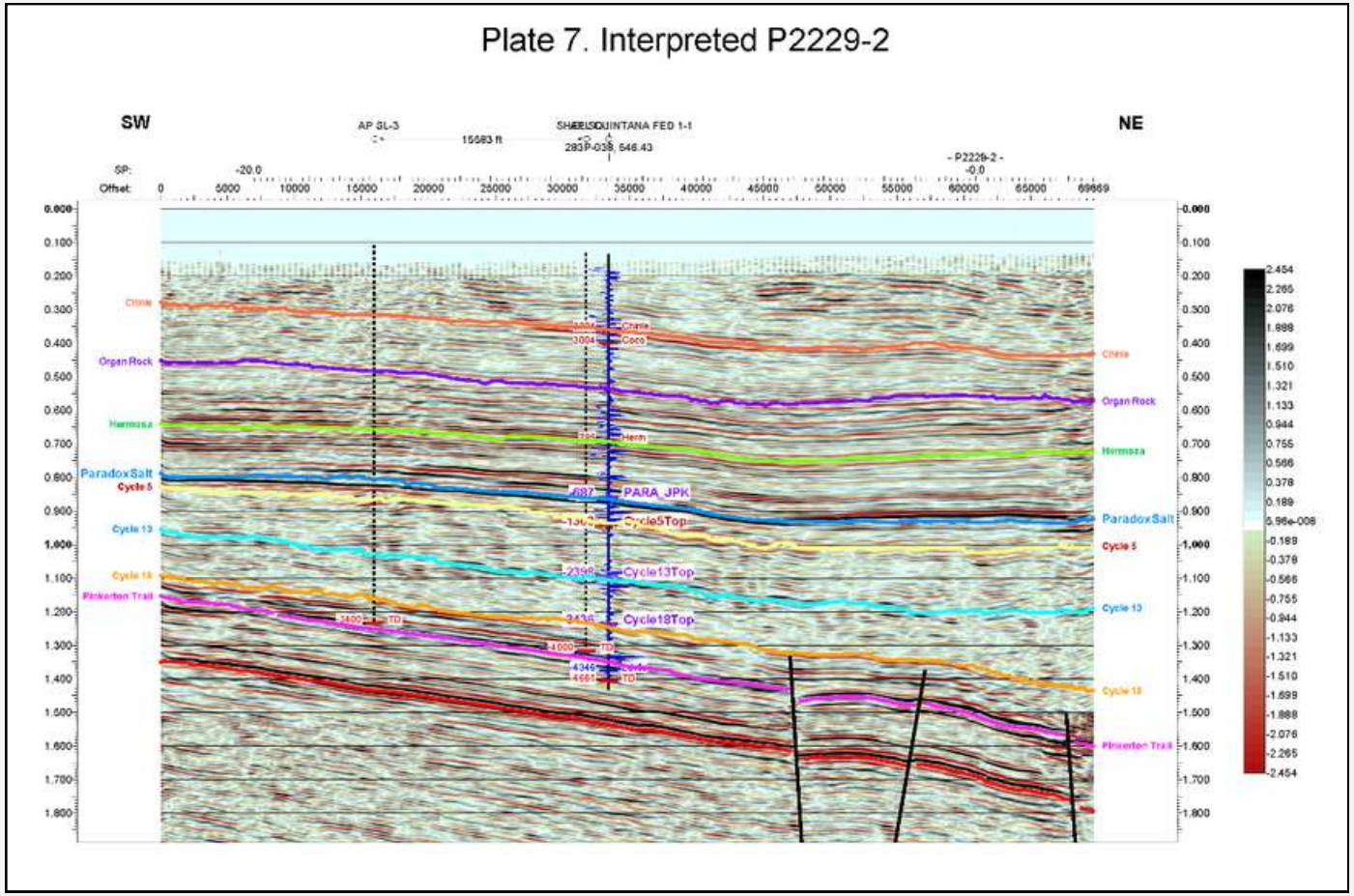
2D seismic Highlights the Green River Potash and Lithium Project is in the Best Fairway in the Paradox Basin

2D Seismic data reveals a laterally extensive stratiform and strata bound horizon which appears to lie on a flat-lying portion of the antiform that underlies the property.

Flat lying potash beds are amenable to solution mining

The seismic data indicates that the Leadville Formation and Paradox clastic zones dip north–northeast, with structural lows and localized closures favoring accumulation of lithium-bearing brines.

Northward thickening of the Paradox Formation and high-angle faults may enhance both the volume and quality of brine.



*Please see Note on Exploration Targets in “Forward Looking Statements”

The Lithium and Bromine Opportunity

Favorable Geology for Rich Resources

De-risked with Anson's project advancing on its border to the north.

Exploration Target: Based on aquifer volumes and porosity estimates.

- **Lithium:** 0.6–1.7Mt of LCE is a low and high case with Li concentrations ranging from ~91-152 ppm
- **Bromine:** 3.3–9.1Mt of Br_2 is a low and high case with Br_2 concentrations ranging from ~2,647-4,412 ppm

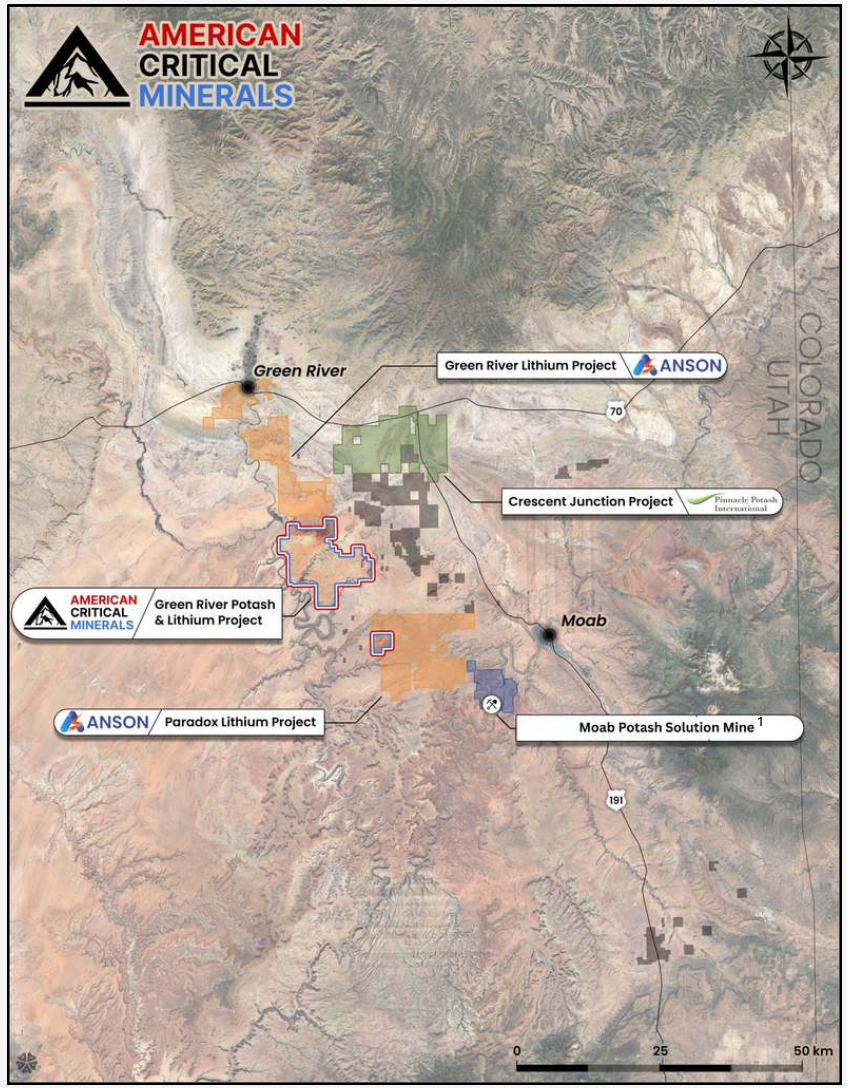
Anson Resources: Fully permitted, advancing to financing

Green River Lithium Project

- **All major permits granted** for Anson's 10,000 tpa lithium carbonate plant following approval of its Small Scale Mining Operation application (July 2026)
- **Project moving into Feasibility** with expected delivery in 2027
- **Definitive offtake** with LG: 4ktpa LCE

Paradox Lithium Project

- **Successful pilot program with Koch:** Produced battery-grade lithium and demonstrated strong purity relative to other basins
- **Definitive Feasibility Study:** 13ktpa of LCE production, annual EBITDA of US$153M, and a 47% IRR, targeted for completion Q1 2027



Please see more on Exploration Targets in "Forward Looking Statements".
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Defining Milestone

Completion of the Inaugural AP-S-02 Duma Point Well

- **Purpose:** Validate historic drill data and test, through coring and brine sampling, the key Paradox formation potash horizons, as well as the clastic brine-bearing zones for lithium and bromine in the Paradox and Leadville formations.

- **Location:** Strategically positioned approximately 2,000 feet from the historic Quintana Fed 1-1 oil and gas well that reported 5.9 metres grading 24.3% KCl within Cycle 5. The well is located at the northern portion of the project, near Anson Resources' Green River lithium project.

- **The Duma Point AP-S-02 well** reached a total depth of 2,818 metres (9,245 feet)

- **Drilling Confirmed:**
  - Visual identification of sylvite mineralization within the Cycle 5 potash bed.
  - Potential for lithium - and bromine-bearing brines within the two prospective zones.
  - Comprehensive suite of downhole wireline geophysical logs (elogs) acquired to characterize the subsurface stratigraphy and support interpretation of the targeted potash- and brine-bearing intervals.
  - Interpretation of the elog responses indicates that the targeted potash interval occur at depths, apparent thicknesses, and potash grades consistent with those identified in the historic well.

- **Potash and brine samples are currently being analyzed.** The company will provide updates as results become available.





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The Path Forward
Discovery to Feasibility

Phase II Drill Program - 2 Wells

Lithium

- Agapito estimates that approximately three successful wells will be required to support an economic study.
- Further process work will be needed to take the economic study to Feasibility. Recall, Anson Resources completed a Koch pilot on their Green River Lithium Project.
- Sr. Advisor Simon Clarke has been involved in the completion of 3 lithium PEAs and brings extensive knowledge of lithium markets and offtake negotiations.

Phase III Drill Program - 3 Wells

Potash

- Agapito estimates that approximately six successful wells will be required to support a future feasibility study.
- 2D/3D seismic coverage across the area is expected to help establish continuity between wells, an important component in advancing toward a feasibility study.
- CEO Dean Pekeski previously guided multiple projects through a similar development process, bringing direct potash development and feasibility study experience to the project.

*Please see Note on Exploration Targets in “Forward Looking Statements”

Building the U.S. Supply Chain

Two Critical Minerals

Funding Food Security

- Sage Potash (TSXV-SAGE) – Secured a $14M USDA grant for their Sage Plain Potash Project in the southern end of the Paradox Basin, Utah.
- Peak (Private) – EXIM Bank issued a LOI of $175M and secured an $80M grant from the USDA for capital funding for their SOP project, Utah.

CEO, Dean Pekeski negotiated the funding package with USDA, FPEP and US EXIM Bank for Peak's SOP Brine project in Utah.

Energy Transition

- Standard Lithium (TSX-SLI) - Secured a $225M grant from the Department of Energy to build Phase I of the South West Arkansas DLE Project.
- Anson Resources (ASX-ASN) – Signed an LOI for $330M with EXIM Bank for their Lithium project. They recently annnounced a definitive agreement Where POSCO will fund and build their 10kt LCE demonstration plant (next to KCLI).

Sr. Advisor, Simon Clarke has held many offtake negotiations with the leaders in battery technology.

*Please see Note on Exploration Targets in "Forward Looking Statements" on Page 2 which also contains details of the Agapito Report these numbers are taken from.

The Potash Problem in America – Huge Reliance on Overseas Markets

Investing in U.S. based potash sources, will help to secure American Farming Independence and Food Security with U.S. based supply.

Declining U.S. Production



U.S. PRODUCTION

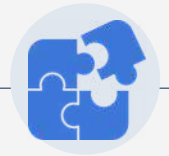
-65%

production decline

Potash production in America has consistently declined since 1999.

1999: **1480t.** | 2022: **480t.**[1]

Global Supply Chain Disruptions



AFFECTS THE U.S.

~38%

of global supply

The ***Russia/Ukraine war*** resulted in sanctions on a significant supply of Potash from Russia/Belarus

Rising Demand



SUPPLY

~6M tonnes[2]

global supply gap

2022E Global supply gap



U.S. IMPORTS

over 94%

of its potash from overseas sources

Rising Costs



FARMING COSTS

Rising

Supply chain disruptions and fertilizer price increases lead to higher costs for American Farmers

Rising Prices



PRICES

Rising & Tariff Impacts

Higher costs for American farmers leads to higher prices for American consumers and Tariffs / Trade disputes will exacerbate this Trend

1. USGS MCS2000, MCS2022
2. Source: IHS July 2022 Potash Outlook, Bloomberg

The Lithium Opportunity in America

Investing in U.S. based lithium mining will help secure American EV Battery supply chains .

Declining U.S. Production



U.S. PRODUCTION

-36%

production decline

US Lithium Mined Production has dropped from 37% of global lithium production to 1% from 1995-2021[2]

Despite having 4% of the world's lithium reserves[5]

Rising Demand



WORLDWIDE

~3M tonnes[2]

demand by 2030

In 2024 the U.S. consumed 3,400 metric tonnes of lithium[1]

Foreign Dependence



U.S. IMPORT

Over 50%

(2024)

70% of Global lithium production is dominated by Australia and Chile[3]

China dominates the EV battery supply chain, supplying 56% of the EV batteries worldwide[8]

Critical Need



GLOBAL Li SHORTAGE

2025[6]

"Global lithium supply is expected to enter a deficit relative to demand by 2025"

BMI, a Fitch Solutions research unit

The Need for U.S. Lithium Production



US DEPT OF ENERGY

2.91B

The US Department of Energy has committed $2.91B to help secure the U.S. supply chain for advanced batteries, presently dominated by China[7]

Our Team

Dean Pekeski, BSc, PGeo.
President, CEO & Director

Has held senior technical and corporate positions across the mining sector for over 33 years with a particular focus on potash exploration and development for over 17 years of that time. Dean was Executive Vice President of Western Potash Corp. from 2008 – 2015 and lead discovery and development of the Milestone Potash Solution Mining Project in Saskatchewan. From 2016 Dean has been developing Peak Minerals Inc., a private Company developing the construction ready Sevier Playa Potassium Sulphate (SOP) Brine Project in Utah where he most recently served as CEO, President & Director. He remains as Chief Technical Officer and Director for Peak Minerals.

Dean Besserer, BSc, PGeo.
COO & Director

More than three decades of mineral exploration experience working in over 50 countries, leading projects with annual exploration budgets exceeding US$20 million. Vice-President and Partner at APEX Geoscience Ltd., a consulting firm with offices in Canada, South America and Australia. Director of Brilliant Mining, Niblack Resources, Sentosa Mining, CEO of Zeus Minerals former VP Exploration M2 Cobalt. Professional Geologist and a "Qualified Person" as defined in National Instrument 43-101 - Standards of Disclosure for Mineral Projects ("NI 43-101").

Eric Miller
Director

President of Rideau Potomac Strategy Group, a consultancy that advises public and private sector clients globally on economic and regulatory policies, sustainability, government affairs, business strategy, and geo-political matters. Advises mining companies on critical minerals policies and funding. Representative of Canada's Department of Industry (ISED) in the US. Global Fellow at the Woodrow Wilson Center in Washington, the Canadian Global Affairs Institute, and Canadian Chamber of Commerce's Future of Business Centre.

Colin Healey, Bcom, MBA, MET
Director

Currently CEO of Premier American Uranium Inc.; >20 years extensive experience as a finance and management professional. including 16 years in Equity Research as a Mining and Special Situations Analyst at Haywood Securities, covering uranium, lithium, other commodities.

Steve Vanry, CFA, CIM
Director / Audit Chair

25 years of professional experience in senior management and director positions with resource focused public and private companies, providing expertise in capital markets, strategic planning, regulatory compliance, accounting, and financial reporting.

Simon Clarke, LLB, Dip LP
Sr. Advisor

Executive Chairman of Myriad Uranium Corp. Former CEO & Director of American Lithium Corp. – $1.2 B Market Valuation at height of last lithium cycle; Senior Management / Director Jervois Global; Founder, CEO & Director M2 Cobalt sold to Jervois Global; Founder & Director of Osum Oil Sands approx. 25k bbls / day producer, sold in 2021 for approx. $400m.

John A. Greig, MSc, PGeo.
Sr. Advisor

Assembled Green River Project land package. Founder of Sutton Resources Ltd., Cumberland Resources Ltd., and EuroZinc Mining Corp. Director of Winspear Resources Ltd., Dynamic Oil and Gas Inc. (sold for approx. $105M), and Shellbridge Oil and Gas Inc. (sold for $60M).

Ken Taylor
Sr. Advisor

12 years with Intrepid Potash and is CFO of Redmond Minerals, a salt producer in the U.S.

Corporate Structure

Share Information

as at October 20, 2026

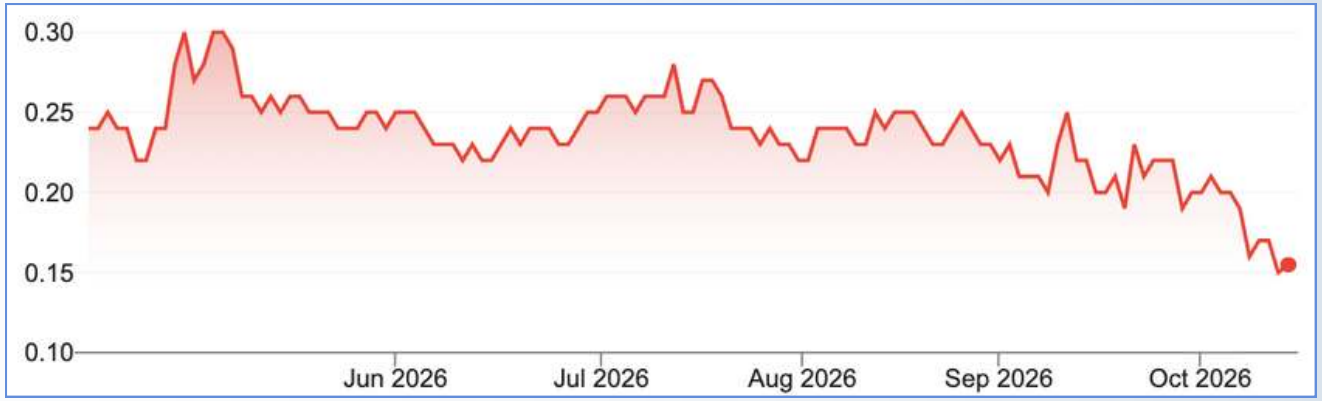
Shares Issued & Outstanding	103,225,370
Warrants	39,703,369
Stock Options	5,230,000
RSUs	1,720,000
Fully-Diluted	**149,878,739**
52-week range (high-low)	0.14 - 0.48
Market Cap	$20.7 M
Cash Position	**$1,187,257**

Ownership

Strategic / Institutional Investors	50%
% Insider Ownership	15%
Other	35%

Share Performance

Google Finance*



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