

American Rare Earths Updated Scoping Study Highlights Billion-Dollar Potential—Positioning the Company as a Future Rare Earth Leader in the USA

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- Strong economics, scalable growth: 3 Mtpa base case offers NPV10% of US\$558M, IRR 24%, with a low-risk CAPEX of US\$456M.
- Billion-dollar potential: 6 Mtpa case delivers NPV10% of US\$1.17B, IRR 28.4%, and CAPEX of US\$737M.
- First-mover advantage: State land tenure accelerates permitting, positioning ARR as a leading U.S.-based rare earths developer independent of tariffs and reliance on foreign processing.
- Vast Scalability & Growth: The 3 Mtpa Phase 1 will mine ~62.3Mt of ore over 20 years, utilizing just ~2.4% of the 2.63Bt JORC resource. With further studies underway, Halleck Creek could support a larger, long-term operation, with potential for extended mine life and increased production capacity.
- Deposit remains open at depth and along strike, with the current JORC resource of 2.63Bt covering only ~16% of the greater Halleck Creek surface area, highlighting significant expansion potential.

DENVER, Feb. 24, 2025 -- [American Rare Earths](#) (ASX: ARR | OTCQX: ARRF and AMRRY) ("ARR" or the "Company") is pleased to announce the results of its Updated Halleck Creek Scoping Study, confirming the project's strong economics, scalability, and strategic importance.

Compiled by independent engineering firm Stantec Consulting Services Inc., the Study highlights Halleck Creek's strong economic potential, strategic advantages, and clear pathway to development as a U.S.-based rare earths project. Located in Wyoming, a Tier 1 mining jurisdiction, Halleck Creek benefits from state land tenure, allowing for accelerated permitting and development.

Compelling Economics & Scalable Growth

The Updated Scoping Study confirms Halleck Creek as a world-class rare earths project with robust financials and long-term scalability:

- 3 Mtpa Base Case:
 - NPV10% of US\$558 million, IRR of 24%
 - CAPEX of US\$456 million, with a 2.7-year payback period
 - Annual production: ~4,169 metric tons of TREO, including 1,833 metric tons of NdPr oxide
- 6 Mtpa Case:
 - NPV10% of US\$1.171 billion, IRR of 28.4%
 - CAPEX of US\$737 million, with a 1.8-year payback period
 - Annual production: ~7,661 metric tons of TREO, including 3,344 metric tons of NdPr oxide

First-Mover Advantage & U.S. Supply Chain Security

As the only large-scale rare earths project in the U.S. with a clear path to production, ARR is positioned to secure a domestic, tariff-free supply of critical minerals for U.S. and allied markets.

- China controls over 90% of global rare earth refining. With the U.S. prioritizing supply chain security, ARR is uniquely positioned as a credible U.S.-based developer to deliver a fully integrated solution-from mining to refining.
- State land tenure accelerates permitting, avoiding the lengthy delays often associated with projects on federal land.

- Halleck Creek's 100% U.S.-based production and refining will ensure a secure, domestic supply of rare earth oxide metals-eliminating reliance on foreign supply chains and reinforcing the 'Made in America' commitment.
- Deposit remains open at depth and along strike, with the current JORC resource of 2.63Bt covering only ~16% of the greater Halleck Creek project area, highlighting significant expansion potential.

Clear Development Pathway & Future Growth

Halleck Creek's staged development approach ensures financial and operational flexibility, allowing ARR to scale production in alignment with market demand:

- Base Case: 3 Mtpa - Low-risk entry to production to produce an average of 4,169 mt of TREO per annum, including 1,833 mt of NdPr Oxide.
- Alternate Case: Scalable to 6 Mtpa - Enhancing project economics, producing an average of 7,661 mt TREO per annum, including 3,334 mt of NdPr Oxide
- Future Expansion Potential: The Cowboy State Mine ("CSM") represents only Phase 1 of Halleck Creek's development, benefiting from a strategic permitting advantage. The 20-year CSM LOM plan includes mining approximately 62.3 Mt of ore-just ~2.4% of the total 2,627 Mt JORC Mineral Resource-highlighting the vast potential for extended mine life and increased production in future phases. Given the increasing demand for rare earths, ARR is evaluating further studies, as Halleck Creek could support a much larger, long-term operation, with potential for extended mine life and increased production capacity that could position ARR among the top rare earth producers outside China.

CEO Commentary

Chris Gibbs, CEO of American Rare Earths, commented:

"The Updated Scoping Study reinforces Halleck Creek strong economic potential, strategic permitting advantage and clear pathway to development. With a large-scale resource and favorable economics, we are uniquely positioned to help secure America's rare earth supply and reduce dependence on foreign sources."

"The 6 Mtpa case highlights Halleck Creek's billion-dollar potential, delivering an NPV10% of US\$1.17B and an IRR of 28%, showcasing the project's scalability. The 3 Mtpa base case offers a low-risk entry point, producing 1,833 metric tonnes of NdPr oxide annually, with an NPV10% of US\$558M, an IRR of 24%, and a 2.7-year payback period."

"With a scalable development pathway under evaluation, Halleck Creek has the potential to become a major supplier to U.S. and allied markets. Future production scenarios could position ARR among the top rare earth producers outside China, reinforcing America's supply chain security for decades to come."

"And we're not just mining-we are developing a fully integrated U.S. supply chain, refining and producing high-purity rare earth oxides for American manufacturers. Halleck Creek aligns with the growing push for Made-in-America critical minerals, securing a domestic supply for defense, aerospace, and high-tech manufacturing."

Next Steps & Milestones

Building on strong execution in 2024, ARR is advancing key milestones to further de-risk and develop Halleck Creek, as outlined in the Updated Scoping Study and supported by recent metallurgy results. These developments reinforce the project's scalability and strategic importance as a leading U.S. rare earths asset. With a staged development approach, first production could be as early as 2029, subject to ongoing technical and economic assessments. The Company is looking at ways to fast-track development, including plans to commence Phase One of a pilot plant for the beneficiation process. The roadmap ahead highlights key next steps for 2025 and the next major stage gate in the project's development.

A photo accompanying this announcement is available at <https://www.globenewswire.com/NewsRoom/AttachmentNg/224ae98d-757f-41a1-9001-3bd9344cb207>

A full Appendix and Technical Summary for the Updated Scoping Study can be found here. The study was completed with the expertise of experienced and reputable independent engineering consulting firms: Stantec, Tetra Tech and Odessa Resources.

This release was authorized by the board of directors of ARR.

About American Rare Earths Limited:

American Rare Earths (ASX: ARR | OTCQX: ARRNF | ADR: AMRRY) is a critical minerals company at the forefront of reshaping the U.S. rare earths industry. Through its wholly owned subsidiary, Wyoming Rare (USA) Inc., the company is advancing the Halleck Creek Project in Wyoming—a world-class rare earth deposit with the potential to secure America's critical mineral independence for generations. The Halleck Creek Project boasts a JORC-compliant resource of 2.63 billion tonnes, representing approximately 16% of the greater Halleck Creek project surface area, making it one of the largest rare earth deposits in the United States. Located on Wyoming State land, the Cowboy State Mine within Halleck Creek offers cost-efficient open-pit mining methods and benefits from streamlined permitting processes in this mining-friendly state.

With plans for onsite mineral processing and separation facilities, Halleck Creek is strategically positioned to reduce U.S. reliance on imports—predominantly from China—while meeting the growing demand for rare earth elements essential to defense, advanced technologies, and economic security. As exploration progresses, the project's untapped potential on both State and Federal lands further reinforces its significance as a cornerstone of U.S. supply chain security. In addition to its resource potential, American Rare Earths is committed to environmentally responsible mining practices and continues to collaborate with U.S. Government-supported R&D programs to develop innovative extraction and processing technologies for rare earth elements.

The opportunities ahead for Halleck Creek are transformational, positioning it as a multi-generational resource that aligns with U.S. national priorities for critical mineral independence.

For additional information

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Table 1 - Mineral Resource Estimate at Halleck Creek (1000ppm TREO cut off)

Classification	Tonnage	Grade				Contained Material			
		TREO	LREO	HREO	MREO	TREO	LREO	HREO	MREO
	t	ppm	ppm	ppm	ppm	t	t	t	t
Measured	206,716,068	3,720	3,352	370	904	769,018	692,935	76,550	186,836

Indicated	1,272,604,372	3,271	2,900	360	852	4,162,386	3,689,999	458,140	1,084,256
Meas + Ind	1,479,320,439	3,334	2,963	361	859	4,931,405	4,382,934	534,691	1,271,092
Inferred	1,147,180,795	3,239	2,878	361	837	3,715,661	3,302,005	413,651	960,355
Total	2,626,501,234	3,292	2,926	361	850	8,647,066	7,684,939	948,341	2,231,447

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