

BLOGPOST

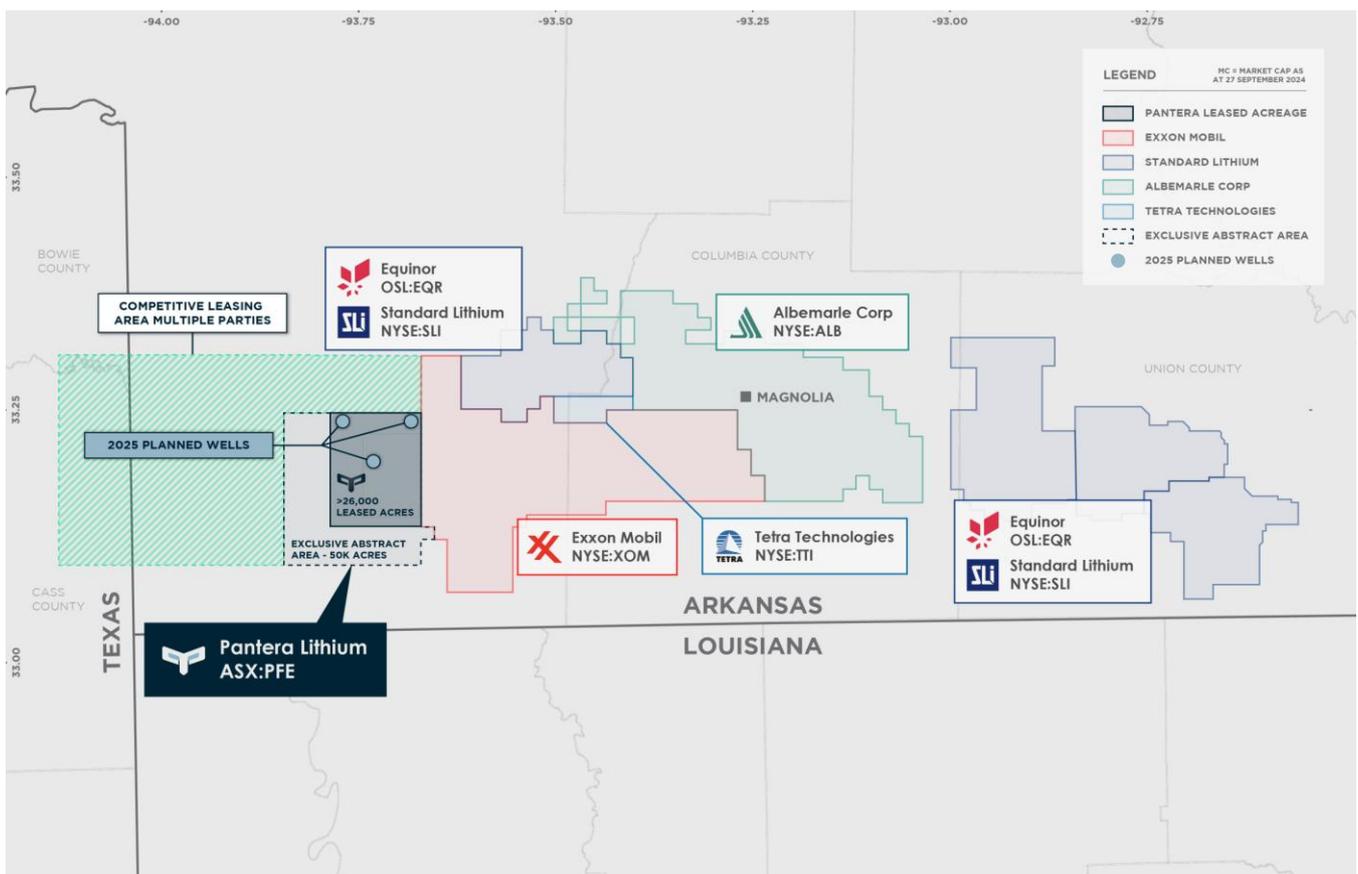
7 May 2025

Pantera Lithium: A Rising Contender in the Heart of America's Lithium Brine Belt

Positioned at the Heart of Arkansas' Lithium Brine Revolution

As the global electric vehicle (EV) revolution accelerates, lithium remains the cornerstone of decarbonisation. Pantera Lithium (ASX:PFE) is emerging as a significant U.S. lithium contender via its flagship Smackover Brine Project in southern Arkansas – situated in direct proximity to ExxonMobil and Equinor/Standard Lithium's large-scale lithium operations.

Figure 1 - The Smackover Formation in southern Arkansas, USA



Smackover Spotlight: A Tier-One Jurisdiction

Exxon and Equinor/Standard's recent unitization approval has reinvigorated attention toward the Smackover Formation. Both companies have now attained approval for the first Lithium Brine Production units in the state. This underscores the strategic gravity of the region, and materially de-risks adjacent projects like Pantera's, which sits just across the lease line.

Figure 2 - Estimated Lithium Resources in Major Global Deposits

Deposit/Country	Estimated Lithium Resources (million tonnes)	Notes
Chile	9.3	World's largest proven reserves
Australia	6.2	Major hard-rock (spodumene) producer
Argentina	3.6	Key part of the "Lithium Triangle"
China	3.0	Significant domestic production and consumption
United States (Total)	1.1	Includes Nevada and other deposits
Canada	0.93	Growing exploration and development
Smackover Formation	5.1–19	U.S. brine deposit; potential, not all recoverable

Pantera's Acreage Footprint: Immediate Adjacency to a Lithium Giant

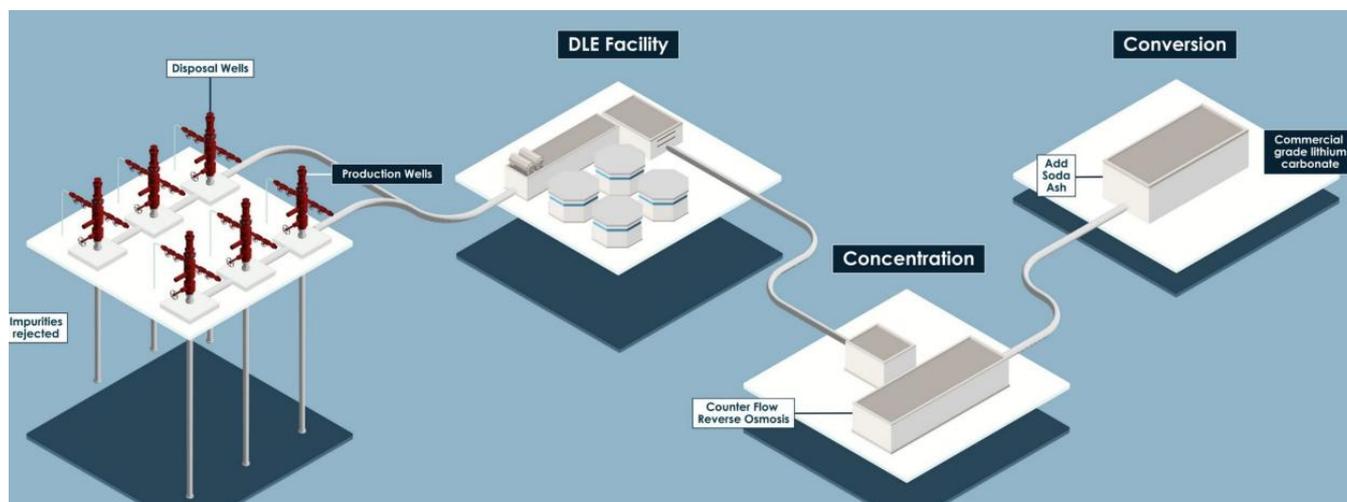
Pantera has secured 100% ownership over its core 26,000 leased acres, with a total surface acre footprint of ~ 35,000 gross acres. Importantly, the project sits directly adjacent to ExxonMobil's lithium acreage – providing Pantera with a highly strategic location amidst proven lithium-bearing brines and decades of developed oil and gas infrastructure.

This proximity enables access to existing road, rail and services – reducing CapEx, fast-tracking development, and aligning with modern ESG benchmarks.

High-Grade Brines + Direct Lithium Extraction (DLE)

The Smackover is known not just for scale, but for quality – with lithium concentrations ranging from 250–600 mg/L, among the highest in the U.S. Pantera is advancing plans to deploy Direct Lithium Extraction (DLE) – a next-generation processing technique that improves efficiency, minimises environmental impact, and maximises project economics.

Figure 3 - Lithium Brine Processing



Surrounded by Majors: Validating the Region

Surrounded by majors like ExxonMobil (NYSE:XOM), Standard Lithium (NYSE:SLI), Equinor (OSL:EQR), and Albemarle (NYSE:ALB), Pantera sits at the epicentre of a lithium boom that could reshape the U.S. energy supply chain. With its strong project fundamentals, strategic location, and forward-thinking approach to extraction, Pantera is well-positioned to support the shift to clean energy and secure a meaningful share of the North American lithium market.

As lithium demand surges in line with electric vehicle adoption and U.S. supply chain security concerns, Pantera Lithium is not just a participant – it is positioning as a pivotal supplier in America’s energy transition.

For more updates, visit panterali.com

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ABOUT PANTERA LITHIUM

Pantera Lithium Limited (ASX:PFE) is a forward-looking lithium exploration company focused on developing high-grade lithium brine resources in the Smackover Formation, Southwest Arkansas. The Company is dedicated to leveraging advanced subsurface modelling and strategic partnerships to establish a leading position in the U.S. lithium supply chain.