Geochemical Database

SMACKOVER BRINE

Extensive geochemical data for lithium discovery

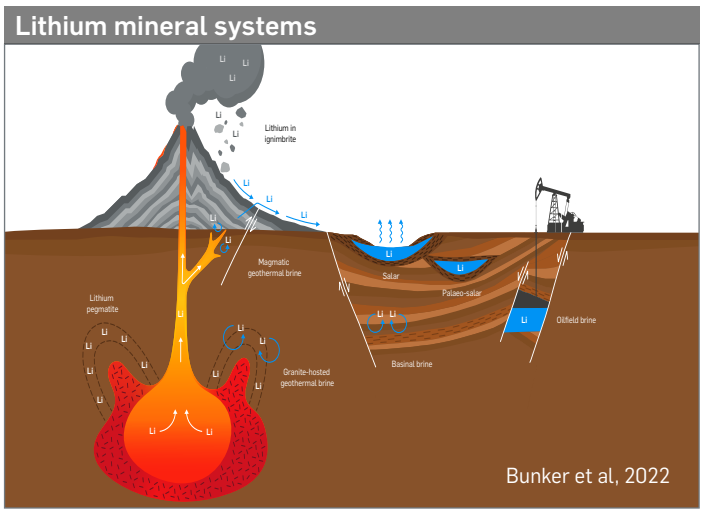
The demand for critical minerals continues to surge and new sources of the light metal lithium are continued to be sought after. The Smackover Formation reveals lithium in the encroaching waters of existing oil and gas wells. Get up to speed in exploring for lithium in this prolific formation.

Turn-key lithium brine exploration

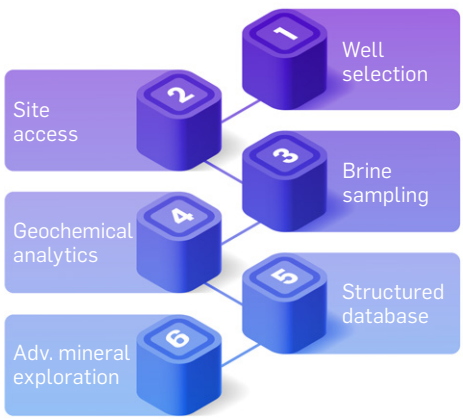
Carefully fingerprinting each well gives context not only to the well site, but also to the region as data is aggregated and plotted geographically. Comprehensive lab results from the brines are processed by Viridien experts for the most robust and accurate geochemistry results for the Smackover Formation in southwestern Arkansas.

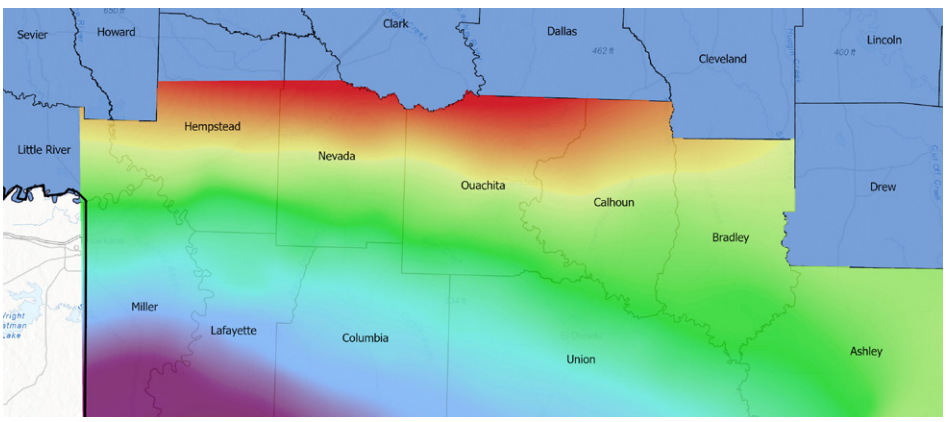
This one-of-a-kind and first to the market database also includes access to:

- New fluid geochemistry data extracted from produced waters from oil and gas wells
- Full geochemical analysis, generating new and fresh data for mineral exploration
- Multidisciplinary geologic experts and leading data curation experts



Understanding the geochemical fingerprint of Smackover producing wells enhances mineral exploration efforts and de-risks exploration for lithium in the formation. To effectively generate a brine database, our geoscience experts selected wells and sampling was done by wellsite professionals, with analytics performed by leading geochemists.





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Mineral systems assessment

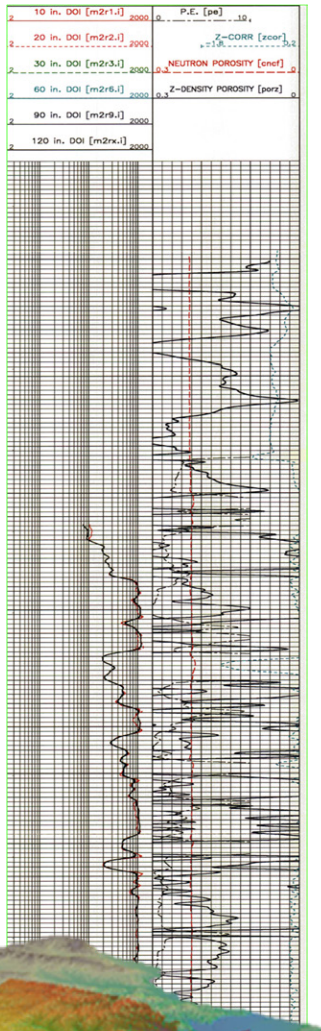
Built with a robust sampling program and comprehensive and extensive geochemical testing for lithium-bearing potential, Viridien's Smackover Formation exploration database addresses the exciting potential of the world's most prolific lithium oilfield brine reservoir.

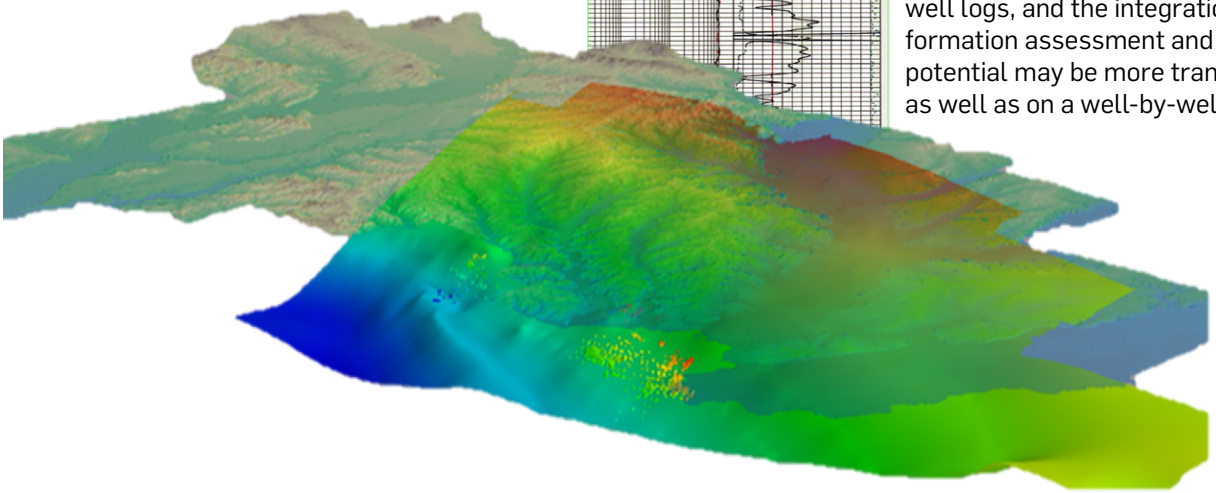
The formation has long been utilized for the rich bromine concentration where high lithium values were recognized. Encroaching lithium rich water from the formation is now the target of those in the direct lithium extraction race.

Our database brings lithium exploration to your desktop with geospatially located wells in lithium-rich southwestern Arkansas, so you can join into the race to electrify the future!

Robust geochemical results

Direct lithium extraction requires complete understanding of fluid, and our database does not fall short of the physical properties needed for complete understanding before DLE. Using several analytical methods, dozens of wells are fingerprinted by experts. Our fluid analytics include cations, anions, alkaline molecules, pH at surface, TDS and more.





Physical Properties

As data management and curation experts, you can be sure this brine exploration database is comprehensive and robust:

- Major cations
- Major anions
- Alkaline molecules
- pH
- Lithium
- Specific gravity
- Total dissolved solids

Future work

Further phases are planned for extending geographic reach of the sampling campaign and deeper geoscientific analysis through petrophysical interpretation and modeling. Through digitization and harmonization of well logs, and the integration of datasets, formation assessment and critical mineral potential may be more transparent regionally, as well as on a well-by-well basis.

Reach out to license today

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