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ADVANCING LITHIUM EXPLORATION IN THE USA BATTERY SUPPLY CHAIN

March 2024



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Right Time, Right Place, Right People



Tier One Political Location

Nevada and Arizona are low risk jurisdictions - ranked #1 and #7 by the Fraser Institute Survey of Mining Companies 2022, **no risk of asset nationalization**



Board and Management Committed

20% of shares held by Board and Management, belief in business model, committed to discovery, and poised to capture lithium market



First-rate Local and Regional Infrastructure

Assets located in Arizona, Nevada, Texas, and Pennsylvania, close to highways and transport links to Gigafactories and developing US battery supply chain



Reduced Geological Risk

Bradda has three types of lithium assets; pegmatites, clays and brines (oil and salar type)



ESG Driven Growth

Implementing community and water conservation initiatives and low-carbon footprint projects is at the core of our development



Right Time, Right Place, Right People

Despite current dip, Lithium supply deficits are forecasted, Bradda and its experienced team, strongly supported by the Board, are focused on the USA and investing into the US\$135bn critical minerals supply market chain⁽¹⁾

Source: (1) www.whitehouse.gov

Experienced Team Driving Growth



Ian Stalker
Executive
Chairman



Denham Eke
Finance
Director



Jim Mellon
Non-Executive
Director



Alex Borrelli
Independent
NED



**Euan
Jenkins**
Independent
NED



Piotr Shabak
CFO



Joey Wilkins
COO

ESG



Adam Hawkins, MBA
Global External

TECHNICAL



Don Hains, P.Ge, MBA
Technical Consultant



Dr Yatendra Sharma
BSc Hons, MSc, PhD, CChem,
MRACI, MAusIMM
Lithium Processing Consultant

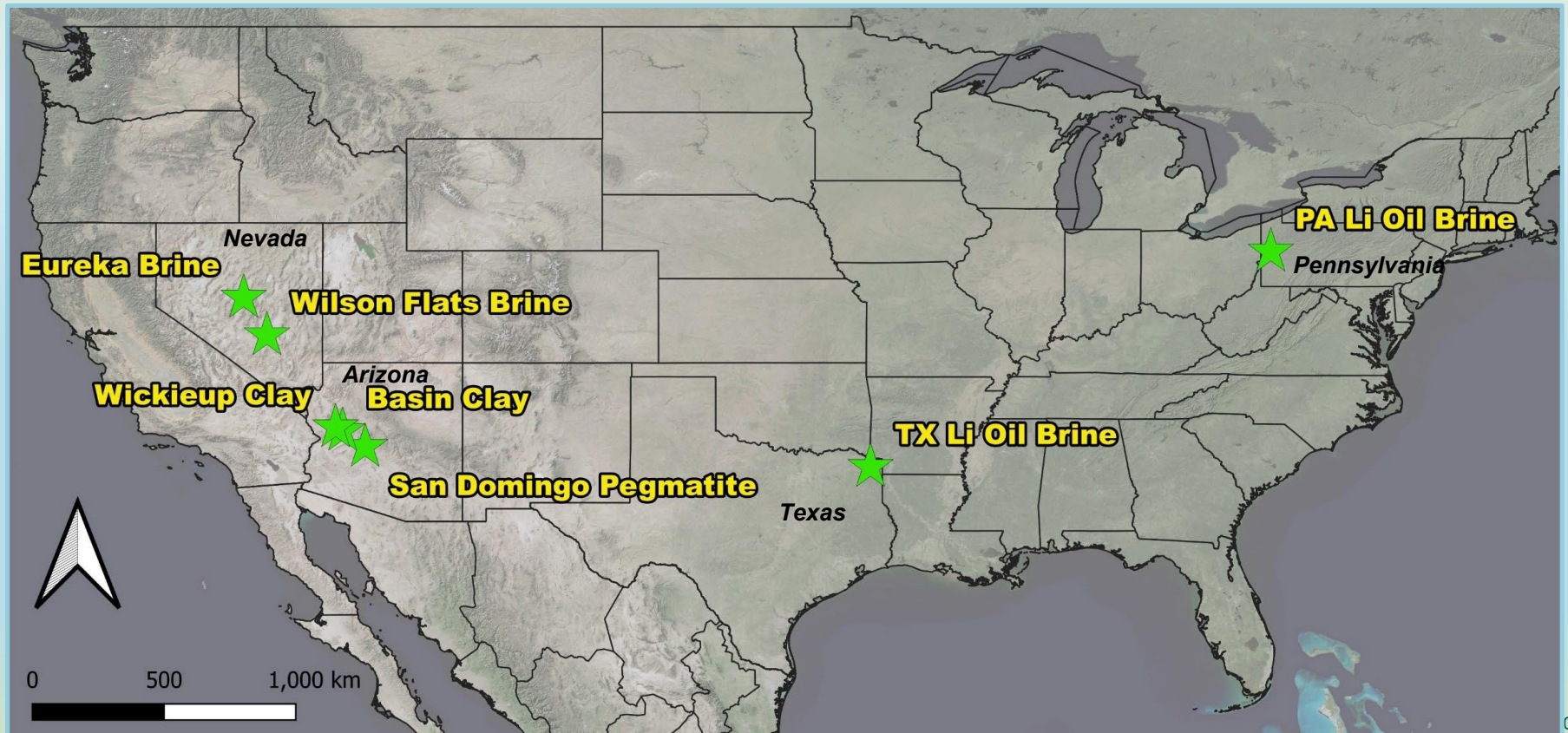
Plus a strong operational team on the ground in the USA driving project growth



Bradda Head Lithium and the USA Battery Supply Chain, Project Distribution

Seven Projects, Four States:

- San Domingo Pegmatite, AZ
- Basin & Wickieup Clay, AZ
- Wilson & Eureka Brine, NV
- Pennsylvania and Texas Lithium Oil-Field Brines



Location Critical to Low Carbon Footprint: Western US

-  Low carbon footprint by bridging lithium supply gap for USA domestic users, location critical
-  All **100% owned** projects
-  Clear vision to an additional **US\$3.0M** due when we reach 2.5MT of LCE at Basin
-  Diverse Portfolio of Lithium Assets For the Sophisticated Investor



 Battery Facility⁽¹⁾

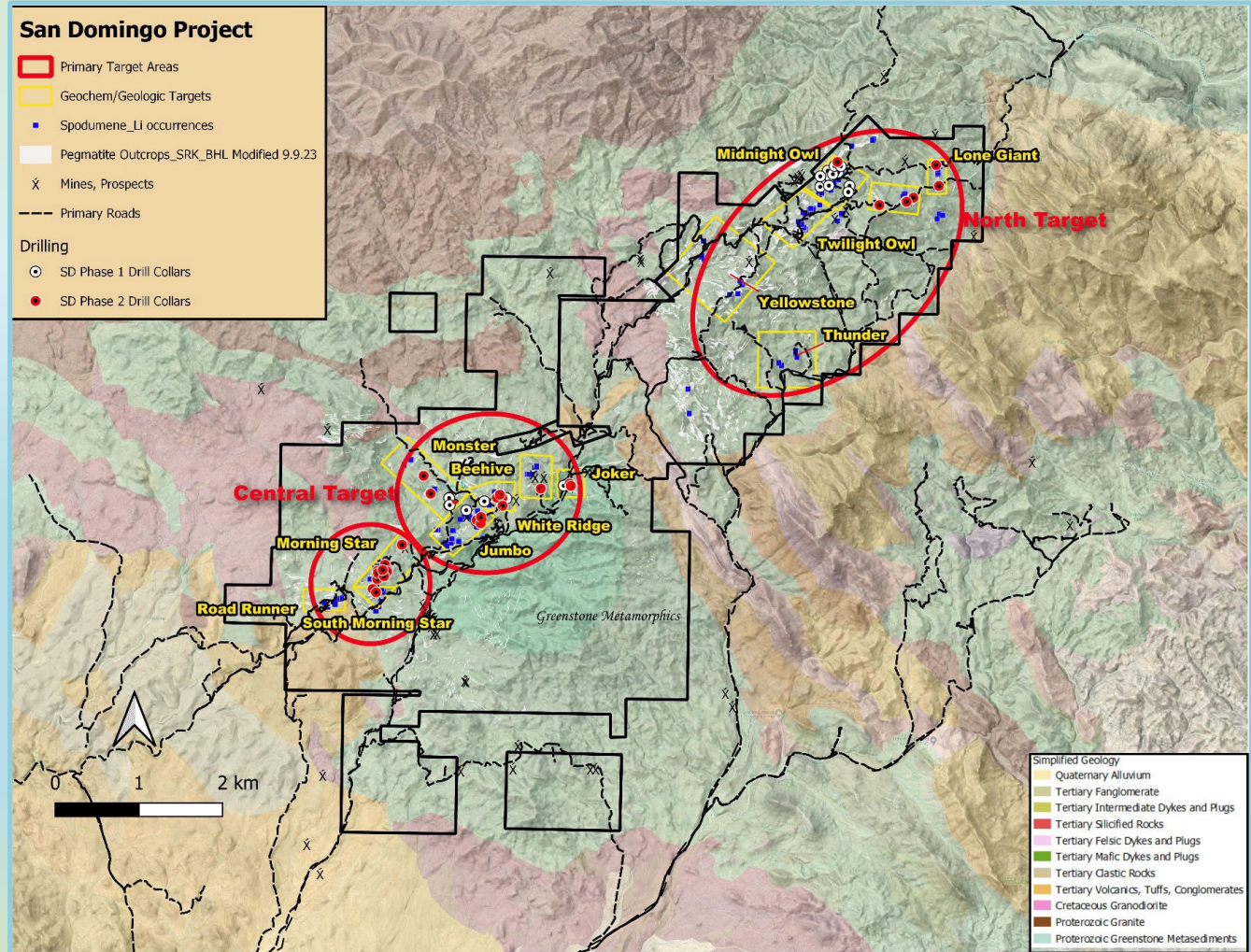
Source: The White House⁽²⁾

Source: (1) Benchmark Mineral Intelligence, National Renewable Energy Laboratory. (2) whitehouse.gov. (3) MinEx Consulting Pty, Western World 2012 to 2021 average

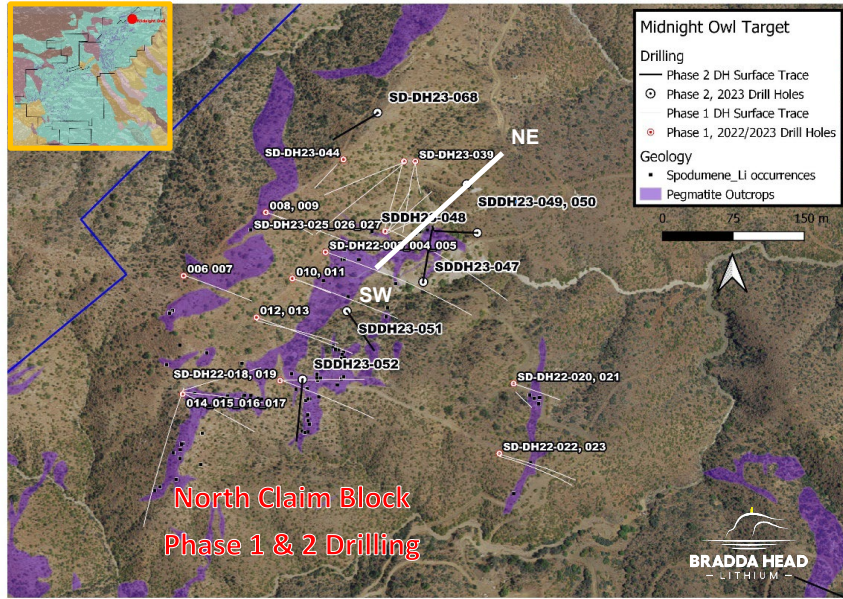
San Domingo - Developing a World Class Lithium District in Arizona



- **33.6km²** land position, 7 historic lithium mines on our claims, strong LCT signature
- **Li-bearing pegmatite** dykes and sill throughout belt, **greenstone host rock**
- 2 Phases of core drilling, **107 holes and 13,092m**
- Shallow (<100m) Li-Intercepts, example is SD-DH22-024 with **32m @ 1.60% Li₂O** from 27m depth
- Prominent **LCT signature** of L plus, Ta, Sn, & Cs
- **No** environmental or social roadblocks, permitting with BLM and State of AZ
- **Metallurgical test** results on Phase 1 drill core from Jumbo target indicate up to **6.0% Li₂O** concentrate with ¼" crush by HLS



Midnight Owl — Extending Mineralization at Depth, Opportunities Remain



Phase 1 Highlights:

- 31.85m @ 1.60% Li₂O in SD-DH22-024
- 6.52m @ 1.24% Li₂O in SD-DH22-041
- 4.27m @ 1.86% Li₂O in SD-DH22-005
- 2.74m @ 2.12% Li₂O in SD-DH22-042

Hole 024 Spodumene

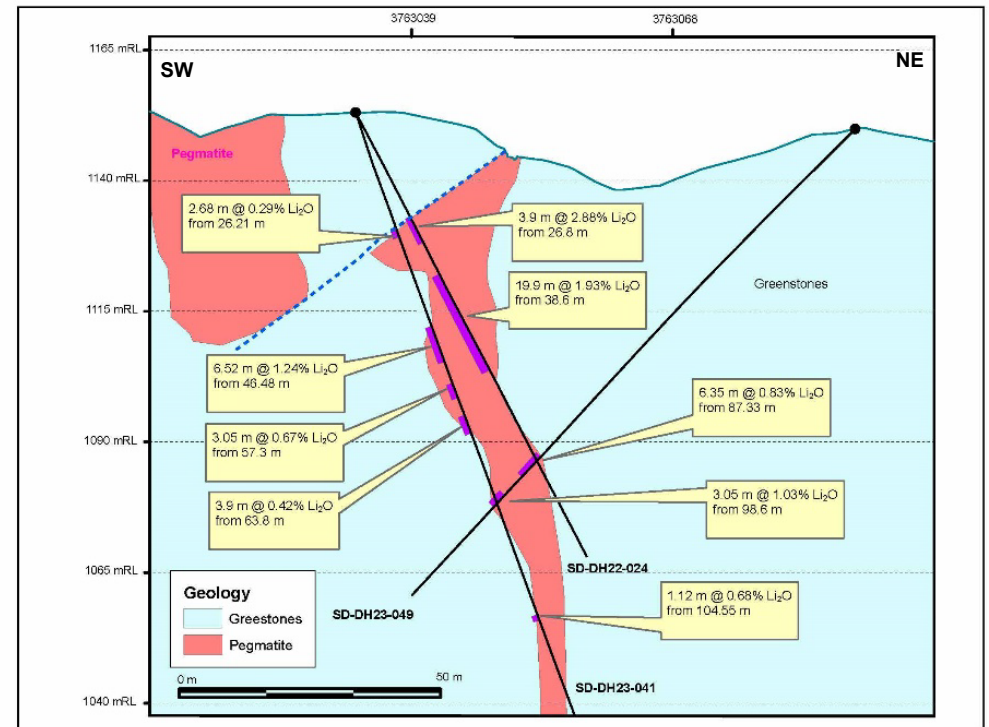


Phase 2 Highlights:

- 6.35m @ 0.83% Li₂O followed by 3.05m @ 1.03% Li₂O in SD-DH23-049
- Including 5.16m of 80 ppm Ta₂O₅ starting at 89.18m (LCT signature)
- 16.82m @ 73 ppm Ta₂O₅ with 105ppm Ta₂O₅ over 9.12m (LCT Signature)



Hole 049 Spodumene



Morning Star Target: Spodumene-Pegmatites Encountered in all holes

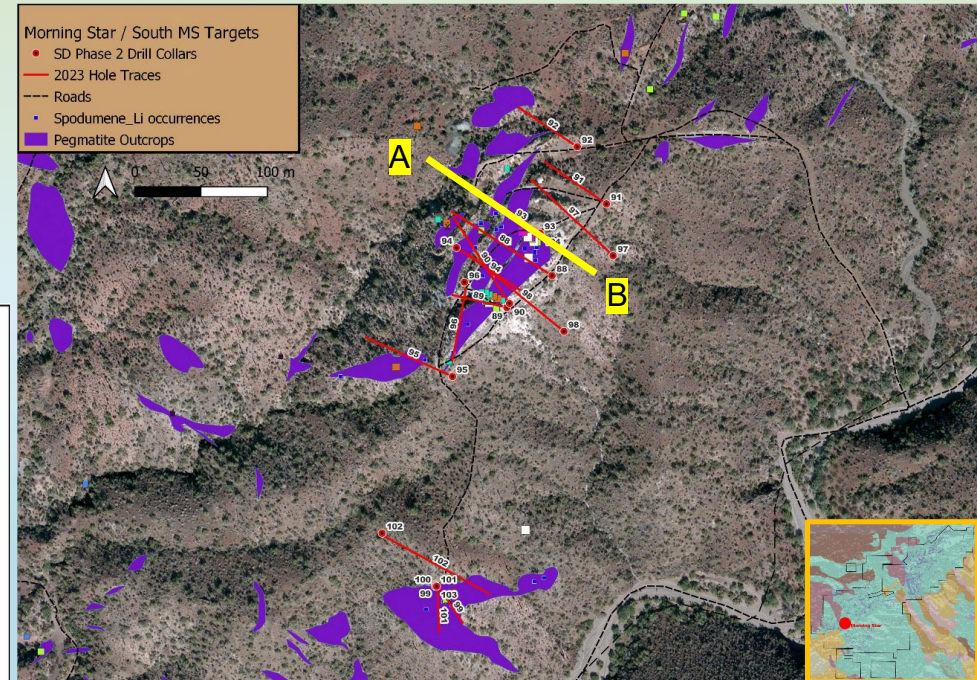
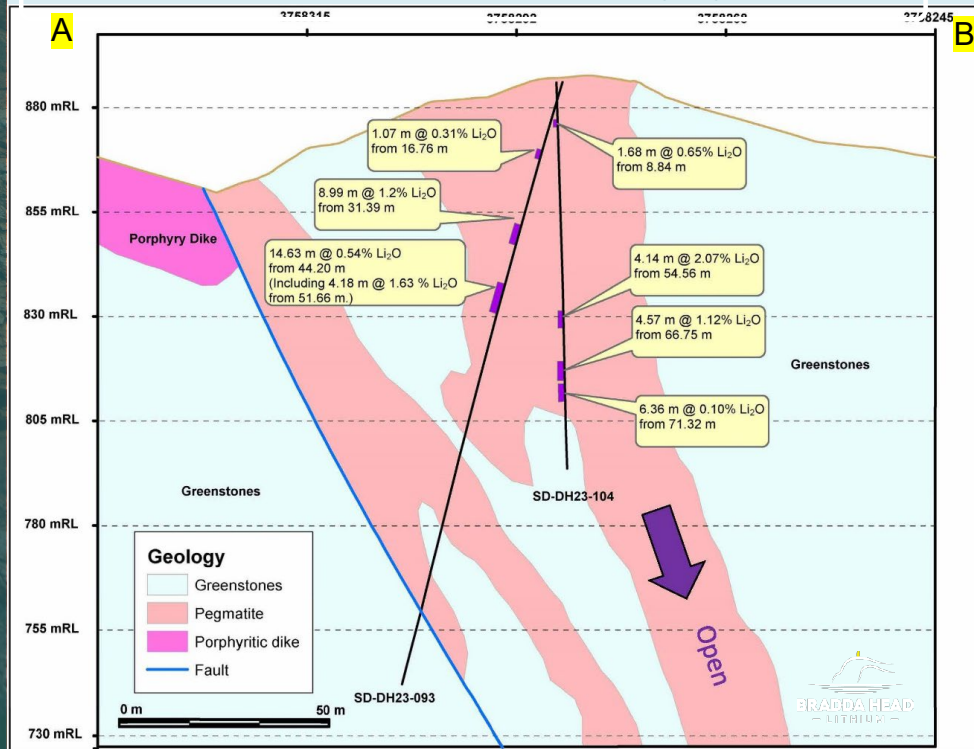
Morning Star Highlights:

- 8.99m @ 1.20 % Li₂O in hole 093 with **5.40m @ 1.70% :Li₂O**
- **4.18m @ 1.63 %** Li₂O in hole 093
- **4.14m @ 2.07%** Li₂O in hole 104
- 4.57m @ 1.12% Li₂O in hole 104



Hole 104 Spodumene

Below: Cross Section of Phase 2 Drill Holes and Li-bearing pegmatites

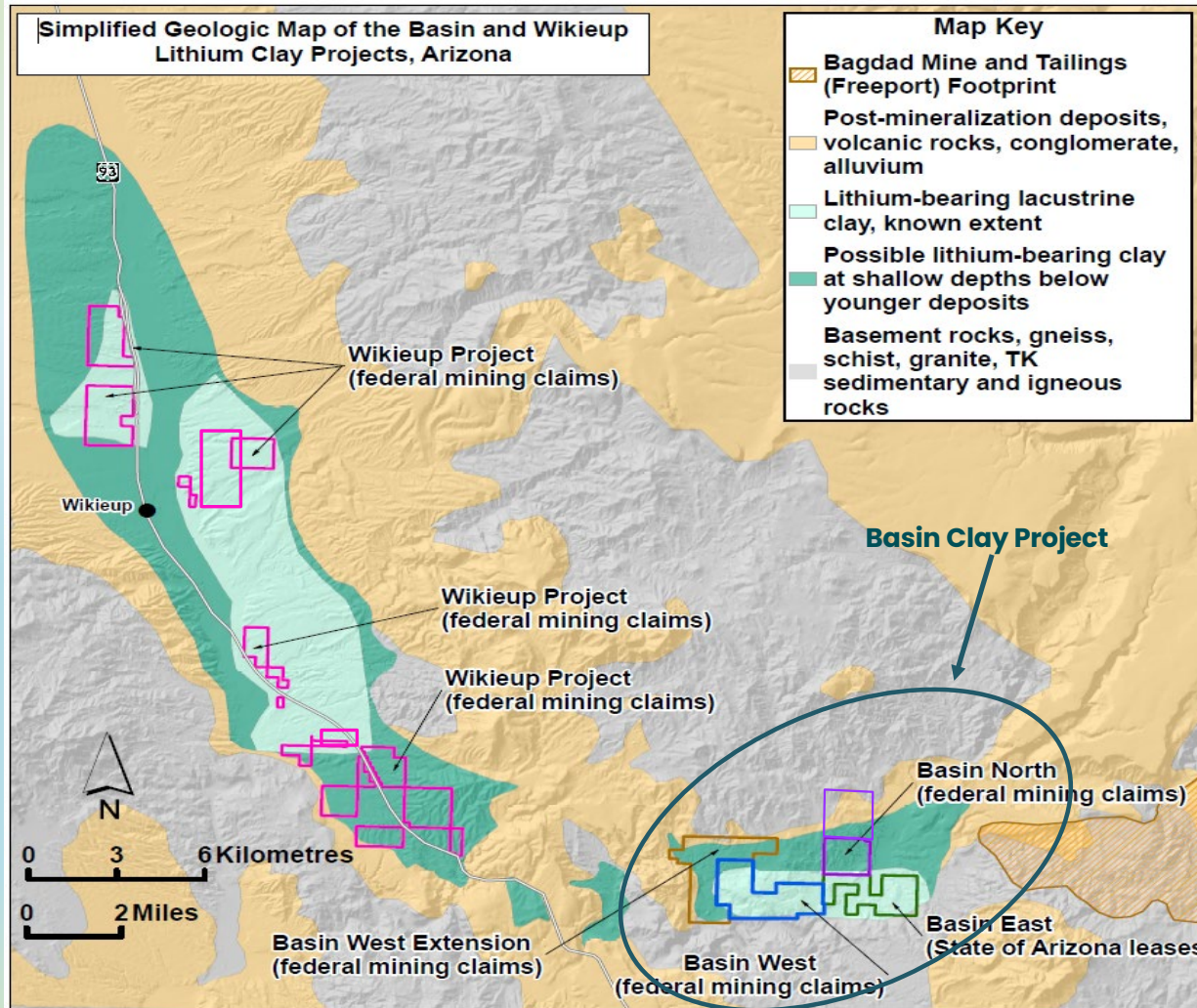


Above: Drill Hole Layout, Morning Star. All holes encountering spodumene, minor lepidolite and montebrasite

South Morning Star Highlights:

- 5.55m @ 1.03% Li₂O in hole 099
- 6.76m @ 0.82% Li₂O in hole 100

Basin: Lithium in Clays



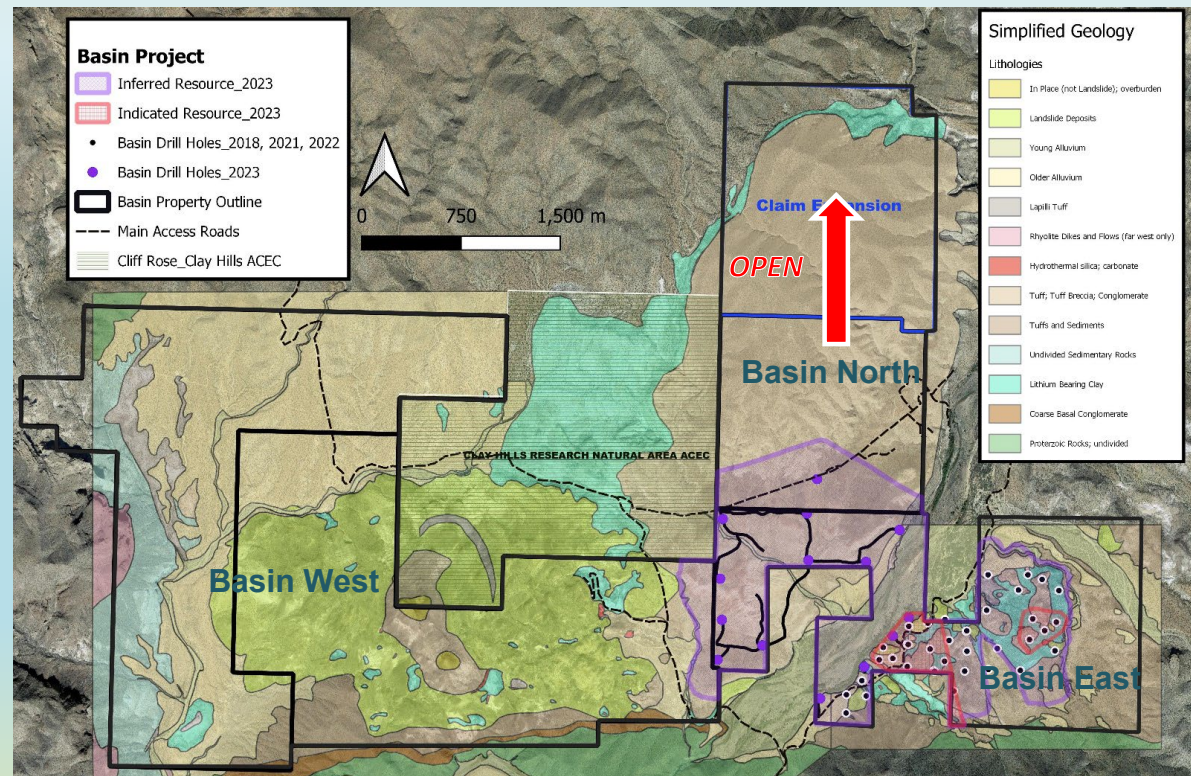
- Basin Clay MRE published 1.08MT LCE November, 2023; **new 2.5MT LCE target** at Basin North drilling, drill permit is pending
- Extensive land package at 19.7km²
- LRC Royalty payment of US \$2.5M received in 2023, additional \$3.0M in cross hairs by expanding MRE by 1.5MT LCE
- Exploration plan of operation (EPO) permit with BLM to expand drilling footprint in Basin West anticipated for end of Q4

Basin: Tripled Resource in less than 12 months, Targeting > 2.5MT LCE

MRE Timeline	LCE (kt)	Resource area (km ²)	% of Basin Project area	Drilled area (km ²)
Q4 2022 MRE	371	1.2	7.2%	1.4
Q3 2023 MRE	1,085	3.3	14.0%	3.9

Total **1.5 to 4.0Mt Target** **19.7km² area** **Huge potential for resource growth as cost of discovery at Basin is US\$11 per tonne of LCE discovered**

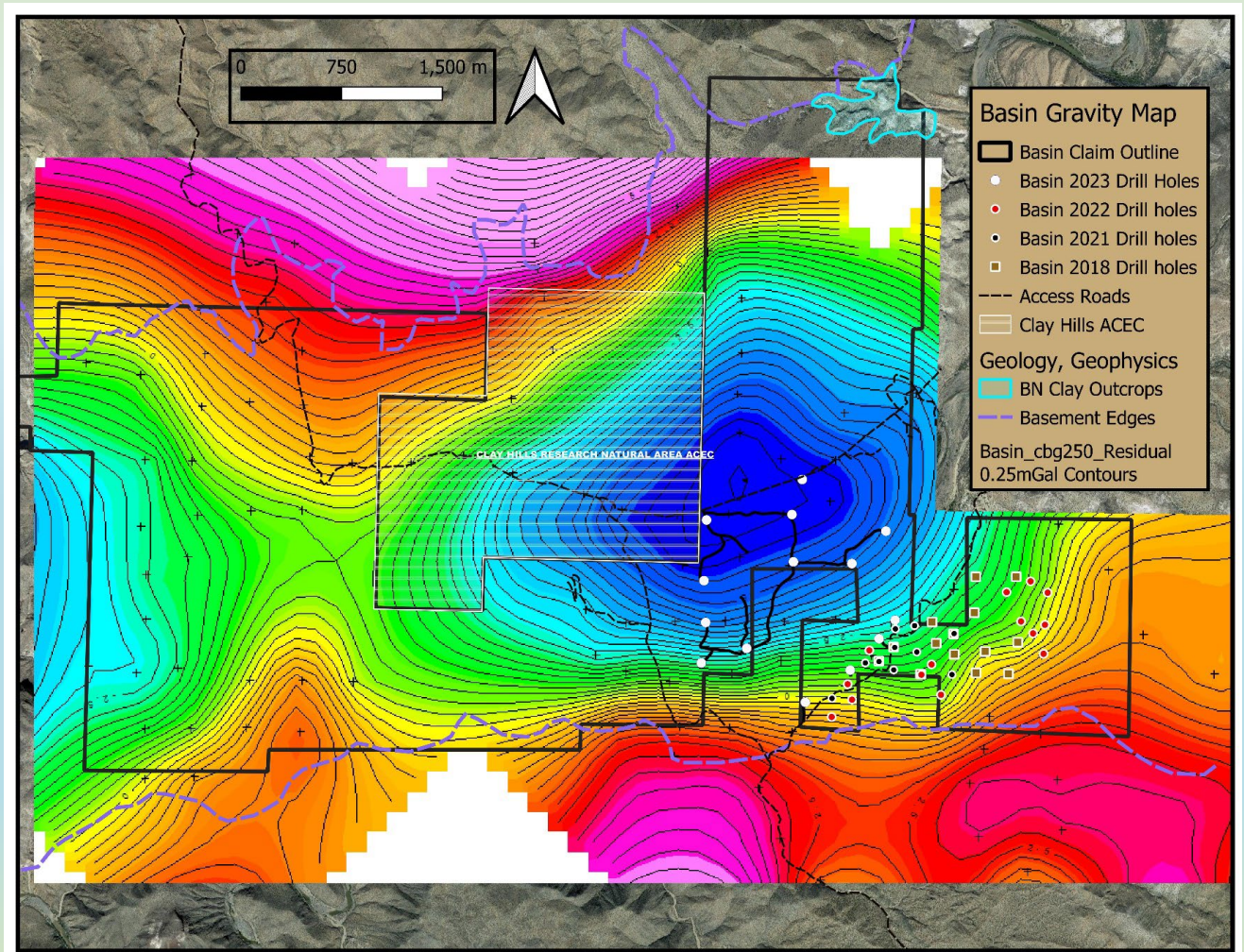
- 1** Resource of **1.085Mt** of LCE and an identified additional 1.0 to 4.0Mt LCE JORC Expl. Target
- 2** Basin North Drilling Program to commence in Q1 of 2024 with expansion to the north
- 3** Step-out drilling to North presents huge opportunity for growth, likely expansion from 1.08 to **>2.5MT LCE that results in \$3.0M royalty payment**
- 4** Permitting continues at Basin West, Basin West Extension, which cover a c.11km² area
- 5** Met results demonstrate: extract >98% of lithium within 1 hour, cyclone clay upgrade possible by 26% to 1,900ppm Li. **Abundant Moly** present in high-grade clay horizon, potential economic driver



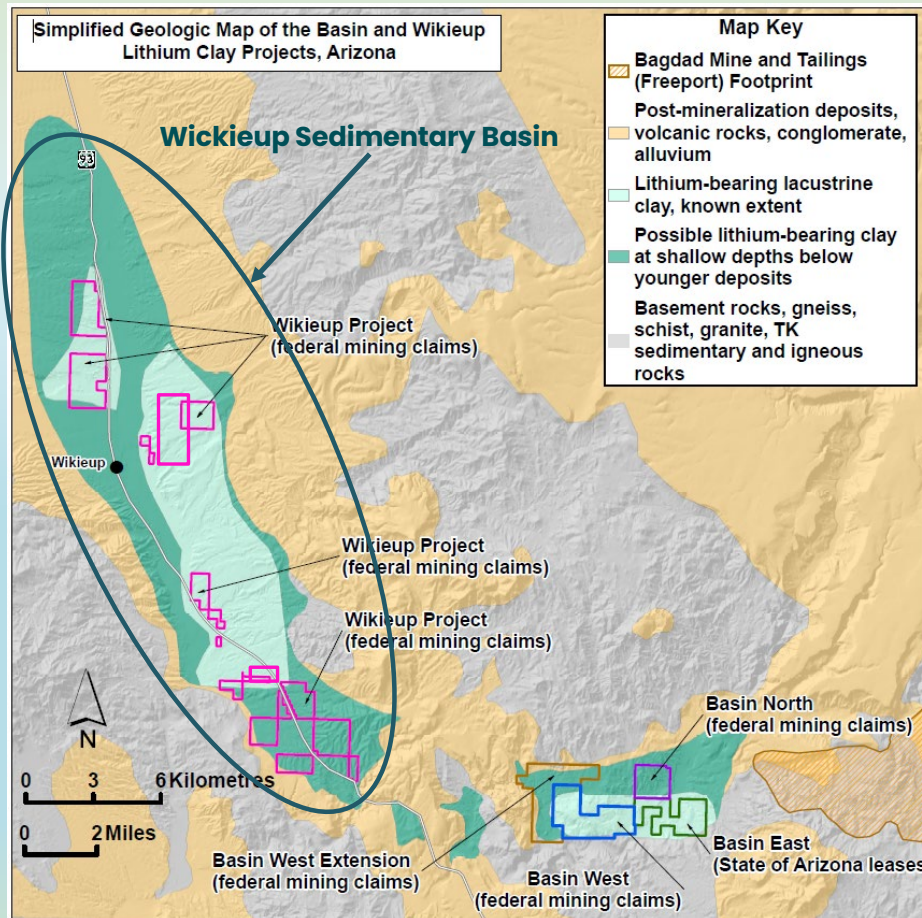
Basin Project
1.09MT LCE Resource + 4.0 Mt Exploration Target

Basin Gravity Survey

- Gravity survey conducted in 2023, 130 stations, post-processing produced excellent results
- Profound gravity low corresponds to thickening Upper clay
- Lower clay could also be significantly thicker—To Be Tested in the 2024 Basin North drill program
- Moderate gravity lows detected over Basin West, interpreted as good indication of extensive clays across lithium anomalous targets



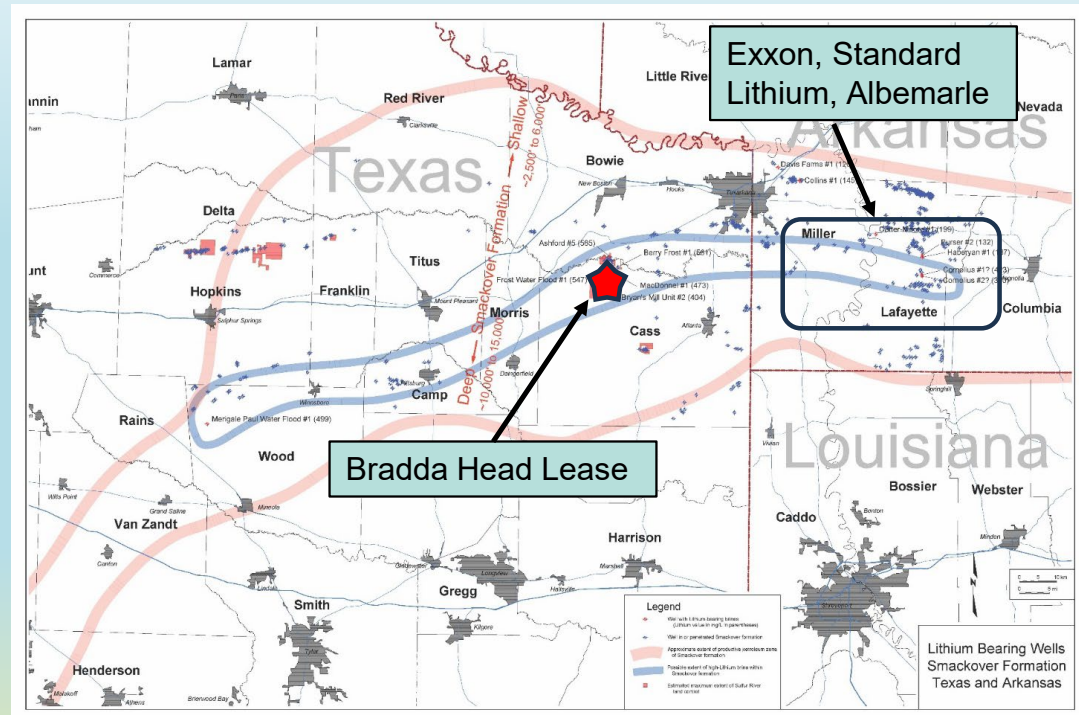
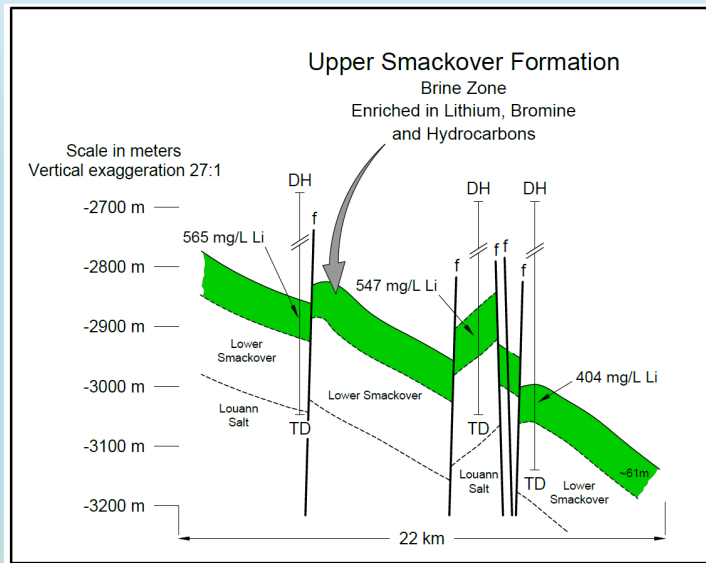
Lithium in Clay Overview of Wickieup - Neighbor to Basin



- Sedimentary assets across Wickieup have shared geology, lacustrine environment with district-scale potential for Li
- Extensive land package covering c.24km² funded to pursue additional drilling as targets emerge from surface work
- Completed land exchange, added 5.27 km² of unpatented lode claims, less than 1.0km from Arizona Lithium's Big Sandy clay deposit
- LRC Royalty transaction applicable to the Wickieup Property, room to grow and capture second royalty payment
- 2024 targeting work to include surface mapping, geochemical sampling, tectonic modelling

Lithium Oil Brine Asset in Smackover Fm—Texas, USA

- Eastern Texas at Arkansas border, 40 acres under lease for exploration, at center of cross section
- Well on lease measured **561 mg/litre** Li by USGS
- Numerous tracts of land targeted for lease, negotiations ongoing
- Standard Lithium/Exxon/Albemarle properties 80km to east in Arkansas, covering similar lithium grades in brines



Lithium Oil Brine Assets—Pennsylvania, USA



- Western Pennsylvania near Ohio state line and 55km north of Pittsburgh
- Oil Brine Reservoir in Oriskany Fm @ 1,600m (5,250 ft)
- 589 acres leased, consolidated over 5 targets
- Former Oil wells sampled **490 and 489 mg/l Lithium** adjacent or very proximal to leased properties

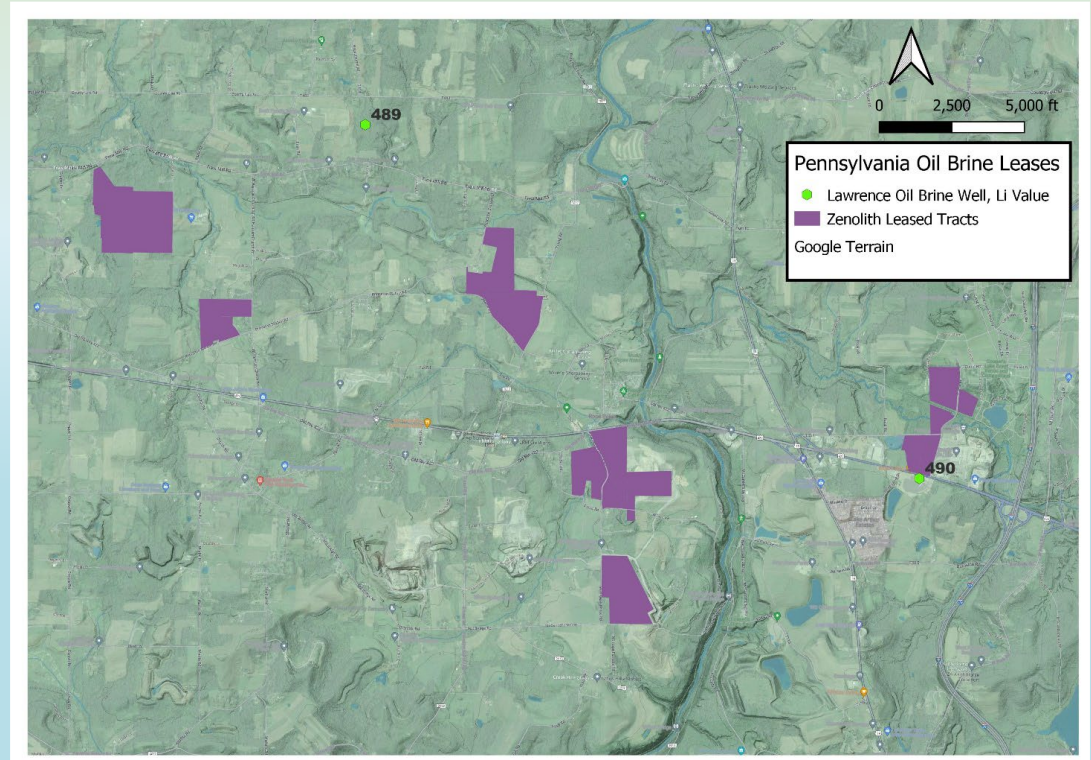


Table 5-20: Pennsylvania Project: Historical Brine Assays (Dresel & Rose)

Well	Li (mg/L)	Br (mg/L)	I (mg/L)	Ca (mg/L)	Na (mg/L)	Cl (mg/L)	S.G.
Well #1	490	1,880	64	24,720	49,000	133,800	1.151
Well #2	489	1,570	31	23,400	34,200	115,900	1.130

Lithium Brine Assets, Nevada



Wilson

Summary

Nye County, 81 Miles East of Clayton Valley, 13.6 km² Clayton

Surface sedimentary sampling and follow up studies

MT (magnetotellurics) Geophysics Completed

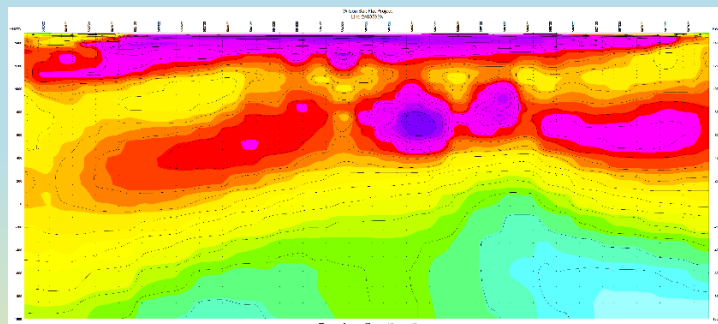
Shallow and Deeper sub-horizontal conductors

Compelling Targets, Require Drill Testing

Exploration plans

Drilling programme designed for 2024 to test clay geochemistry 0-200m and brine geochemistry at 600-700m

MT Inversion Profile



Eureka

Summary

Lander County, 106 Miles Northeast of Clayton Valle, 11.8 km²

MT geophysics conducted 2021, with positive results identifying conductors at 700-900m depth, 6km strike, untested to date

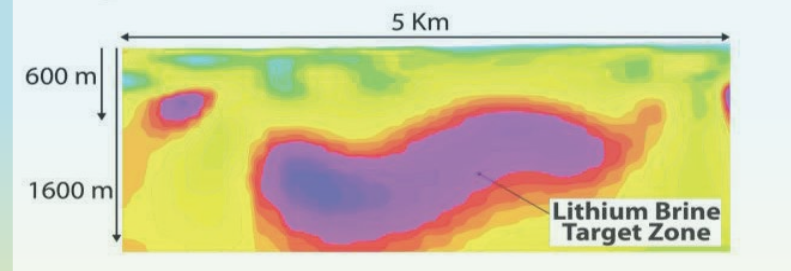


Shallow RC conducted on shallow geophysical conductors and proximal to lithium bearing hot spring

Exploration plans

Drilling programme designed for 2024, test brine geochemistry at 700 to 900m depths

Magnetotellurics Profile



Environmental, Social, and Governance

Environment



Enhanced and continuous environmental stewardship is our core attribute

Protect ground and surface water resources

Operate with respect for the land, sensitive environment, and cultural resources

Social



Ensure social license to operate with our host communities and neighbours is obtained and maintained

Respect local culture and traditions

Partner with host communities to find ways to support programs that increase quality of life and educate

Governance



Create a culture of respect and accountability for our management and workforce







Operate ethically, respectfully, and responsibly

Obtain all required permits, take proactive approach in permit requirements and front-load with cultural and environmental studies

2024 ESG Initiatives

- ❖ Water Conservation Initiatives Proposed for Basin and Wickieup
- ❖ Consultation with Potentially Affected First Nations
- ❖ Community Website Created for Access and Input From Stakeholders

Low Carbon Footprint By Sourcing Lithium in the USA for the USA Battery Market

-  San Domingo pegmatite asset: 13,092m drilled in two campaigns, dozens of high grade Li_2O intercepts
-  New Indicated and Inferred Resource of 1.085MT LCE at Basin within clays, triggers US\$2.5M payment to BHL by LRC. 2.5MT Target Possible - Potential to add US\$3.0M Royalty Payment
-  Lithium oil brines in Pennsylvania and Texas offer excellent opportunities for growth, no other Juniors exploring, competitive advantage with history of work since 2016 and local landman
-  Low carbon footprint lithium for the US domestic market. Strong ESG focus, with new water conservation initiatives focused on drill methods and drill site design
-  Supportive mining jurisdiction for Basin; the nearby Freeport Bagdad copper mine has been in operation since 1928 and currently proceeding with an expansion
-  Experienced management with proven track-record of returning value to shareholders

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Thank you for your attention

