



**LION ROCK**  
RESOURCES INC.

# South Dakota's Most Exciting High-Grade Gold-Lithium Explorer

Corporate Presentation – May 2025

TSXV:ROAR



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# A Premier High-Grade Gold-Lithium Explorer in South Dakota's Black Hills



## High-Grade Gold & Lithium Potential

**Gold up to 18.2 g/t Au, lithium up to 5.4% Li<sub>2</sub>O** with multiple underexplored zones with expansion potential



## Untapped Exploration Upside

**Shear-hosted gold system spans over 1.6km** and Giant Volney lithium pegmatite open for expansion



## Private Land = Fast-Track Permitting

**142 ha of private land accelerates exploration** and avoids federal permitting delays for quicker drill execution



## Experienced Leadership

**Strong track record in discoveries and financings** with expertise in gold, lithium, and strategic metals



## Proven Mining District, Strong Neighbors

Surrounded by major producers with **Homestake (43.9M oz Au), Coeur Mining, and Dakota Gold** are nearby








## Major Catalysts Ahead in 2025

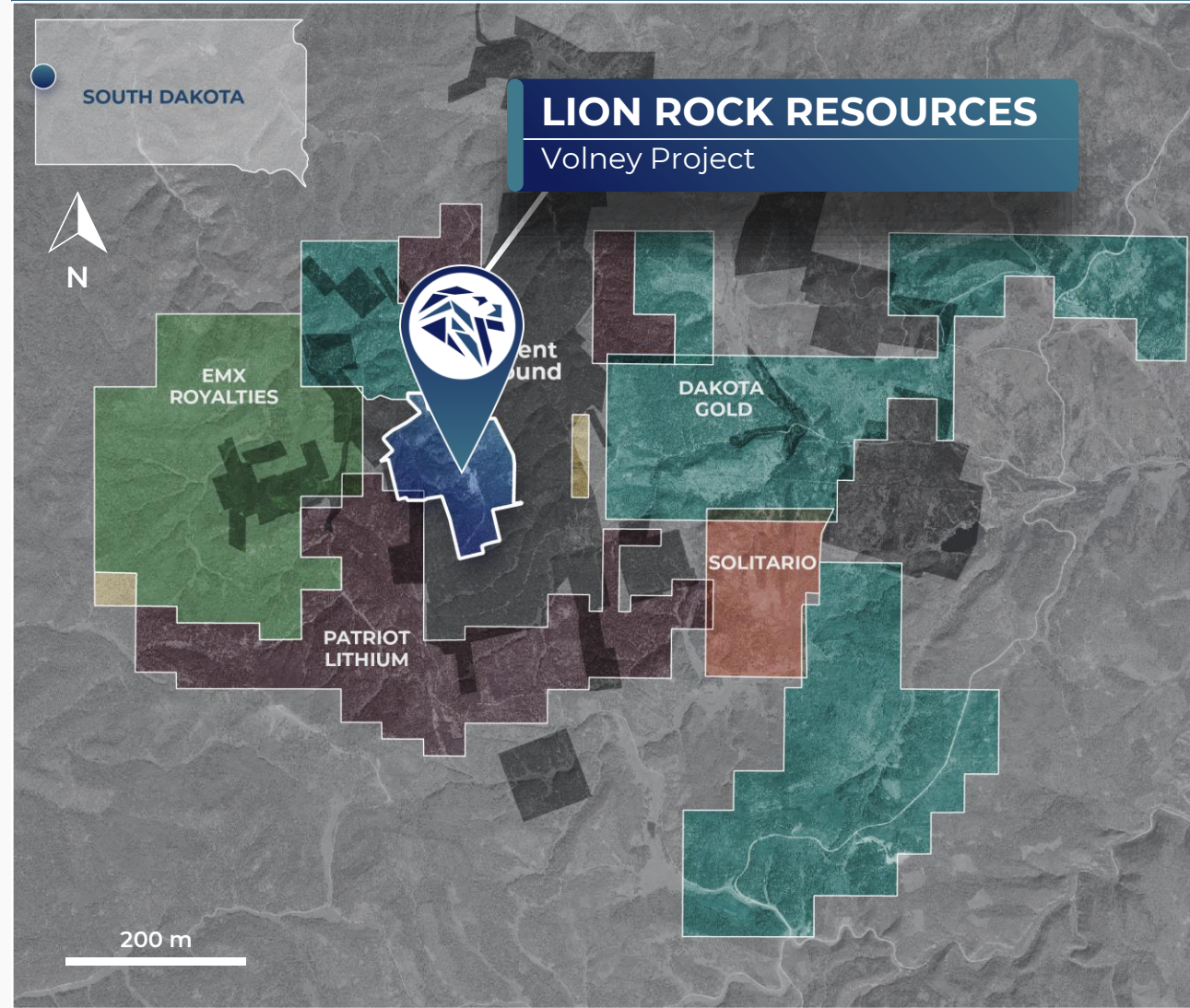
**5,000m drill program in H1 2025** with Geophysics and sampling programs to drive rapid value creation



THE EMERGING TINTON DISTRICT

# Strategically Positioned in a World-Class Mining District

-  Year-round **road** access
  -  Access to **powerlines**
  -  Access to **water**
  -  **Rail** networks near by
- 
-  Duluth, Minnesota & Thunder Bay, Ontario **shipping ports** are both easily accessible by rail





# Unlocking a Large, Underexplored High-Grade Gold & Lithium System

## Multiple High-Grade Targets Identified

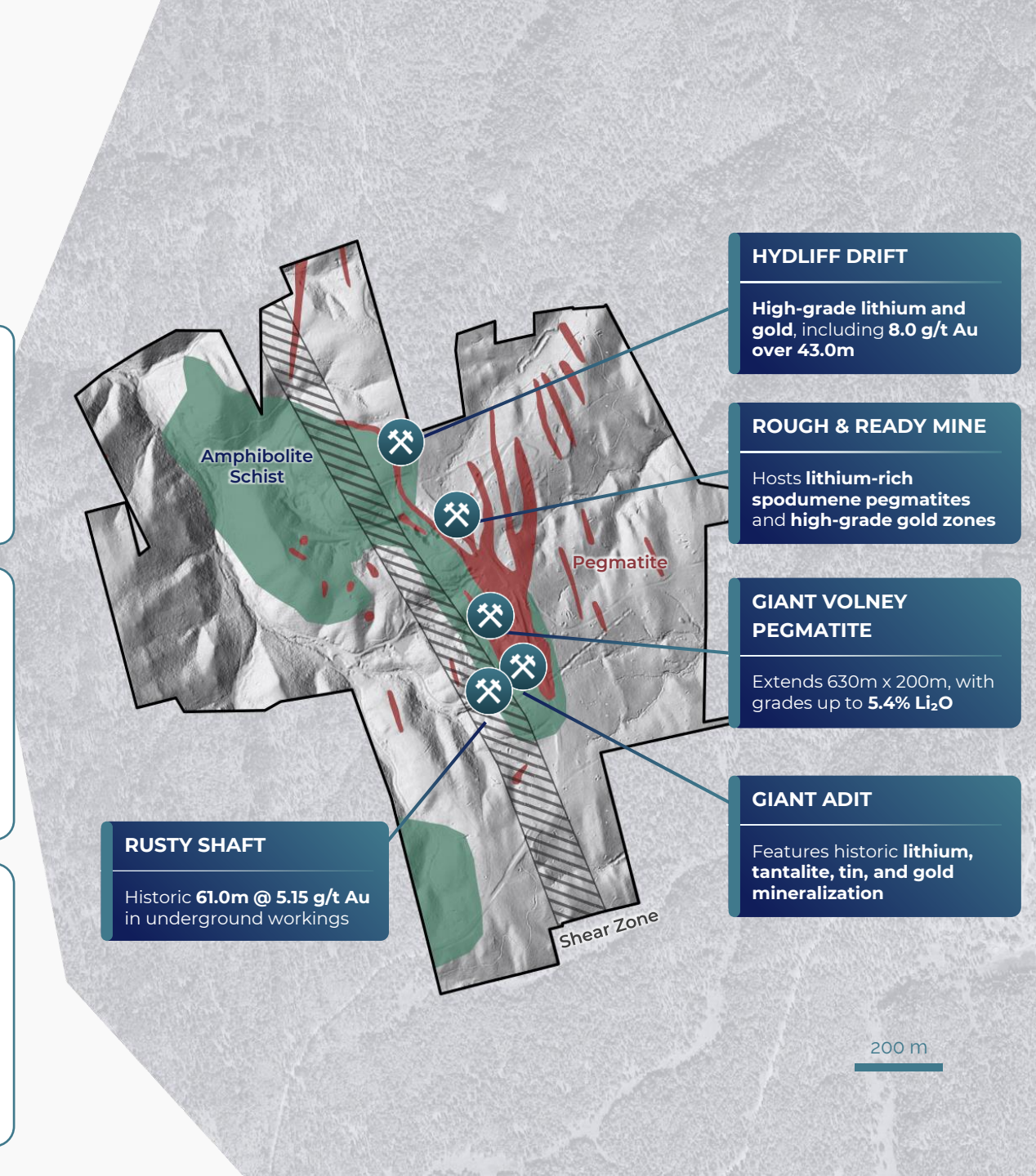
- ▶ Gold & lithium-rich zones span a **district-scale opportunity** with proven high-grade intercepts
- ▶ Historic drilling has **only tested shallow depths (<50m)**, leaving significant discovery potential

## Two Distinct Styles of Mineralization

- ▶ **Shear-Hosted Gold** – Broad mineralized zones with strong high-grade intercepts
- ▶ **Lithium-Tantalum-Tin Pegmatites** – Large spodumene-rich bodies with exceptional  $\text{Li}_2\text{O}$  grades
- ▶ **Both mineralization styles remain open for expansion** along strike and at depth

## Exploration Upside & Next Steps

- ▶ **Limited historic drilling** leaves vast potential for high-grade discoveries
- ▶ **5,000m drill program** in 2025 will target both **gold and lithium expansion zones**
- ▶ **Geophysics, surface sampling, and structural mapping** will refine priority drill targets





# High-Grade LCT Pegmatite Swarm with District-Scale Potential

- ▶ **A 635m-long LCT (Lithium-Cesium-Tantalum) pegmatite**, hosting high-grade spodumene mineralization at surface
- ▶ Multiple pegmatite bodies, **ranging from 10m and upwards**, converging to form a large-scale lithium zone
- ▶ **LCT pegmatites are the primary source of high-grade hard-rock lithium worldwide**, hosting some of the largest and most economically viable lithium deposits

## Historic spodumene-pegmatite sample highlights:

**5.4% Li<sub>2</sub>O**

**5.1% Li<sub>2</sub>O**

**5.2% Li<sub>2</sub>O**

**5.0% Li<sub>2</sub>O**

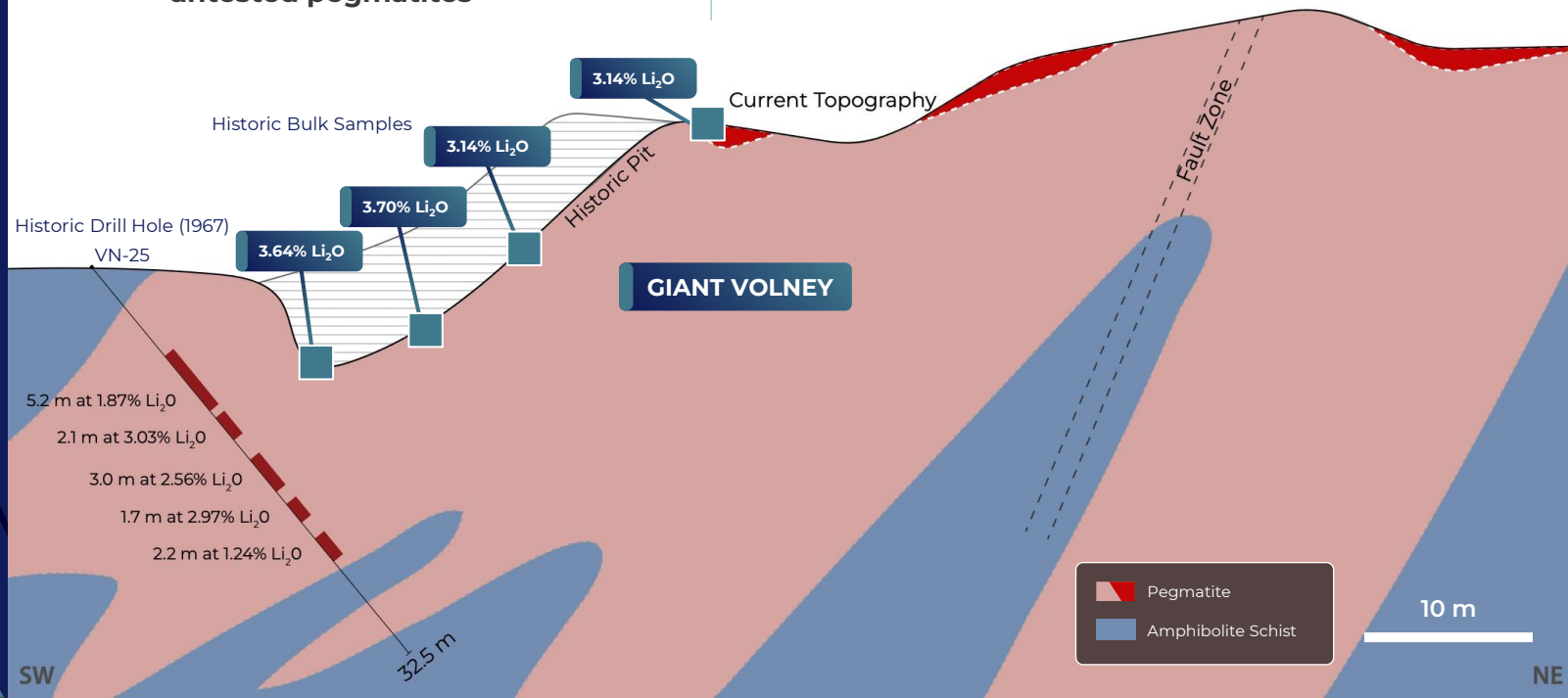
- ▶ **Historic bulk sampling** (10,000 kg) confirms an **average grade of 2.5% Li<sub>2</sub>O**





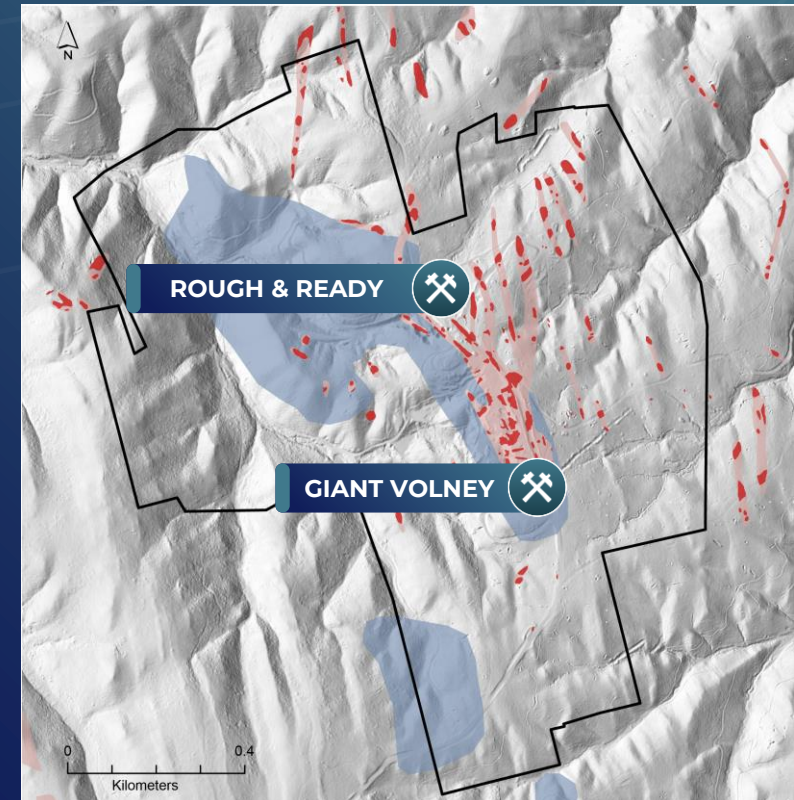
# Giant Volney Pegmatite Target: High-Grade Lithium with Expansion Upside

- ✓ **Large, Continuous Pegmatite Body** – A **630m-long, 200m-wide** LCT pegmatite with lithium mineralization exposed at surface
- ✓ **Exceptional Grades & Drill Results** – Bulk samples returned **up to 4.5% Li<sub>2</sub>O**, while historic drilling confirmed spodumene mineralization, incl. **19.24m @ 1.68% Li<sub>2</sub>O**
- ✓ **Strong Expansion Potential** – Drilled to only **35m depth**, the deposit remains **open along strike, dip, and plunge**, with a **1.6 km lithium-rich trend hosting multiple untested pegmatites**
- ✓ **On-Trend with Rough & Ready Mine** – Shares the same **spodumene-bearing pegmatite system**, reinforcing district-scale potential



## HISTORIC SAMPLE HIGHLIGHTS

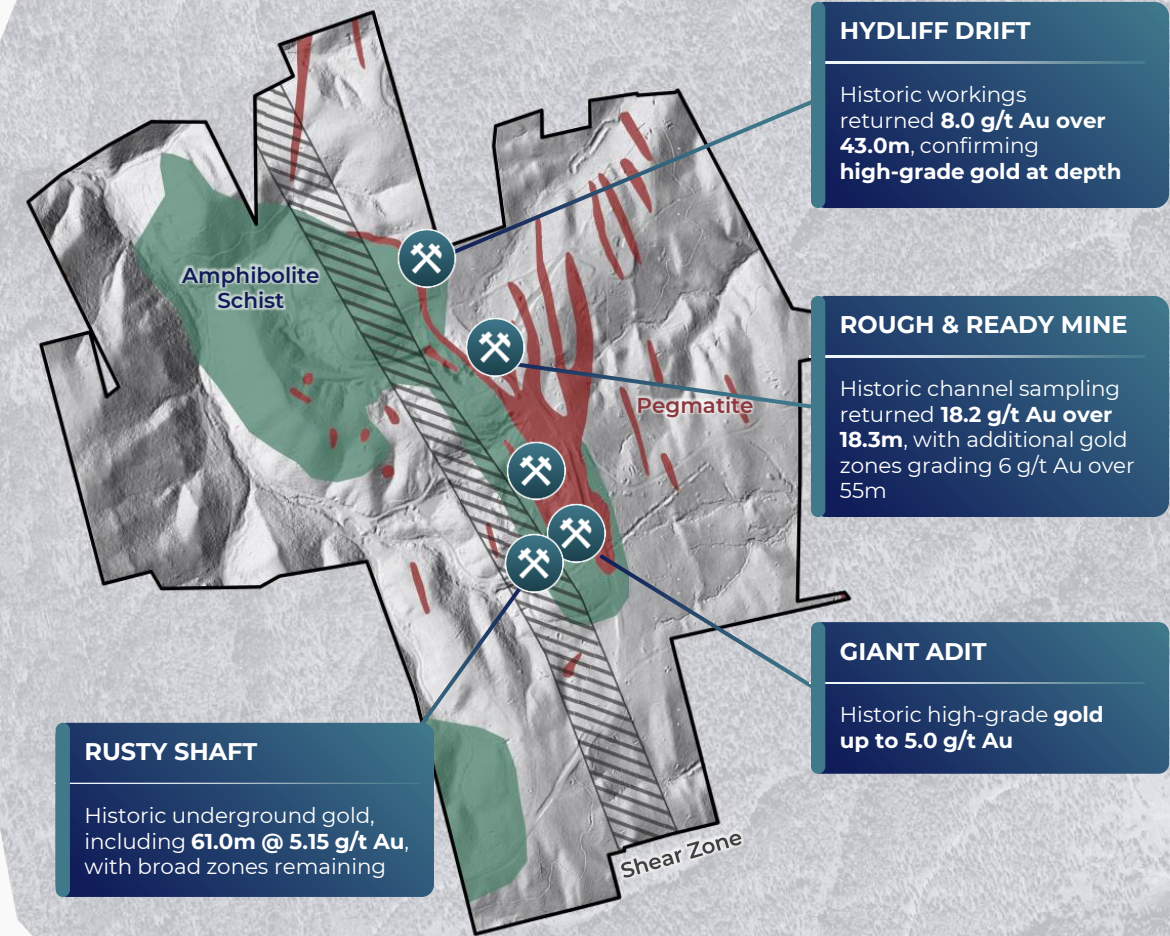
BULK SAMPLES	DRILLING
4.50% Li <sub>2</sub> O	1.47% Li <sub>2</sub> O over 7.6m
4.18% Li <sub>2</sub> O	incl. 2.90% Li <sub>2</sub> O over 2.4m
3.70% Li <sub>2</sub> O	1.68% Li <sub>2</sub> O over 5.2m
3.64% Li <sub>2</sub> O	incl. 3.03% Li <sub>2</sub> O over 2.1m
	and 2.56% Li <sub>2</sub> O over 3.0m
	and 2.97% Li <sub>2</sub> O over 1.7m





# Extensive High-Grade Gold System with Significant Expansion Potential

- ✓ Hosts an extensive shear-hosted gold system, measuring **73m wide and 1.6km long**, with intersected high-grade mineralization **at surface**
- ✓ Historic workings at Rusty Shaft reported grades of **5 g/t – 15 g/t Au over 15-45m**, demonstrating strong high-grade continuity
- ✓ Shallow historic drilling (**<50m depth**) confirmed broad gold mineralization in all eight holes at Rusty Shaft, leaving major expansion potential
- ✓ Historic channel sampling at the past-producing Rough & Ready Mine returned **18.2 g/t Au over 18.3m**, highlighting strong near-surface grades



200 m





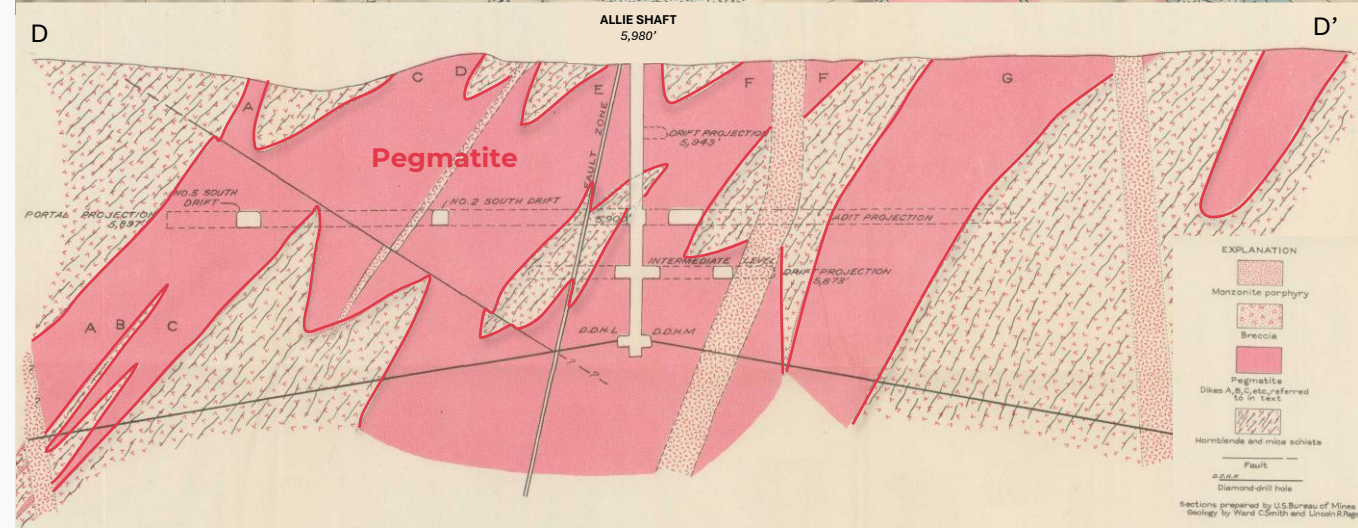
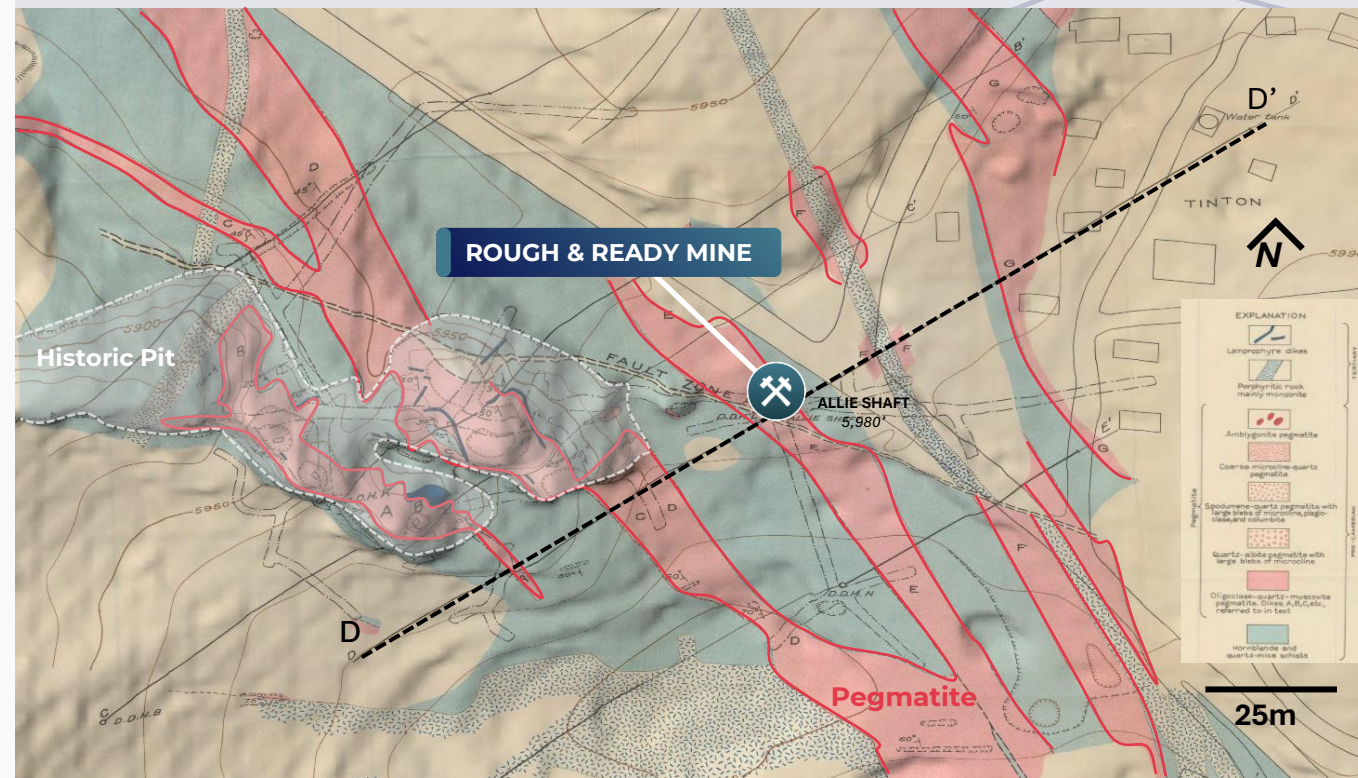
THE VOLNEY PROJECT

# Rough & Ready Mine Target High-Grade Tin, Gold, and Lithium Potential

✓ **Historic Tin Production** – Produced **105,000 lbs of tin (1903–1927)**, including an exceptional **62.5% Sn concentrate** recorded in 1903

✓ **Gold Mineralization** – Historic channel sampling returned **18.2 g/t Au over 18.3m**, with drift sampling confirming **6.0 g/t Au over 55.0m**, hosted in shear structures within amphibolite

✓ **Spodumene-Bearing Pegmatites** – Zoned pegmatites with spodumene indicate **significant untested lithium potential**, on trend with the **high-grade Giant Volney pegmatite**





# Site Visit 2024



Giant Volney Pegmatite



Sulphide in Sheared Basalt



Quartz-Spodumene Pegmatite



Sheared Amphibolite



Rough and Ready Historic Workings



# A Legacy of High-Grade Gold, Lithium & Tin Production

## 1886

### Gold Discovery & Early Mining

First gold discoveries in alluvial drainage below Volney

## 1903-1927

### High-Grade Tin Production & Underground Development

Extensive tin production with underground mine development

## 1928-1944

### Lithium & Tantalum Production Begins

High-grade lithium, tantalum, and tin concentrate production

## 1960s-1970s

### Limited Exploration, No Modern Work

Drilling and sampling confirmed gold & lithium, but no follow-up exploration

1886

1903 - 1927

1928 - 1929

1941 - 1944

1967

1973 - 1974

#### Rough & Ready

UNKNOWN

**6.5 t of ore averaging 4.6% Sn** shipped to Cornwall for treatment

Nellis (1973)

#### Rough & Ready

TINTON MINING CO.  
TINTON REDUCTION CO.  
BLACK HILLS TIN CO.

Development of **740m of underground mine workings and production of 105,039 lbs of tin**

Hess and Bryan (1938)  
Smith and Page (1941)

#### Rough & Ready

TANTALUM HILL  
BLACK HILLS TIN CO.

Production of **1.5 t of cassiterite concentrate @ 30.7% Sn and 13.1 t of tantalite concentrate @ 38.7-57% Ta<sub>2</sub>O<sub>5</sub>**

Redfern (1992)

#### Giant-Volney

FANSTEEL MINING CORP.  
UNDER LEASE FROM  
BLACK HILLS TIN CO.

Production of **1,080 t of spodumene concentrate with grades of 5.6% to 6.3% Li<sub>2</sub>O**, 400 t of amblygonite concentrate @ 8.3% Li<sub>2</sub>O, 21,884 lbs of tantalite concentrates @ 45% Ta<sub>2</sub>O<sub>5</sub>, and 3,800 lbs of cassiterite

Page et al. (1953)  
Redfern (1992)

#### Giant-Volney

NORTON COMPANY

**Drilled eight diamond core holes** totaling 387.9 m targeting Ta(-Li) mineralization and 22,074 lbs of bulk samples collected

Nellis (1973)

#### Giant-Volney & Rusty

HOMESTAKE MINING COMPANY

**8 rotary drill holes drilled to test shallow gold occurrence** at Rusty shaft

Shadrack (1974)  
Norby (1984)



# Work Program

## Q4

### 2024

FOUNDATION FOR EXPLORATION SUCCESS

- Project Acquisition**  
(Completed: Oct 11, 2024)
- Data Review** – Verification and analysis of historic project data
- Target Mapping & Sampling – Pegmatite & gold zone sampling**  
(Completed – results pending)

## Q1

### 2025

PREPARATION FOR DRILL PROGRAM

- Drill Permitting** – Submission and approvals
- Geophysics** – High-resolution magnetic survey to refine targets

## Q2

### 2025

INAUGURAL DRILL PROGRAM

- Commence 5,000m Drill Program** – Testing high-priority gold and lithium zones

## Q3

### 2025

EXPANSION & REFINEMENT

- Expanded Exploration** – Additional fieldwork and target definition



LION ROCK

# Capital Structure

TSXV:ROAR

Ticker	TSX.V:ROAR
Share Price*	\$0.34
Market Cap*	\$27M
Shares Issue & Outstanding	78.5M
Warrants	44M
Options	5.5M
Fully Diluted	128M

\* As of May 8th, 2025



# Why Lion Rock Resources?



## High-Grade Gold & Lithium Potential

**Proven high-grade gold & lithium mineralization** with historic drill results up to **18.2 g/t Au over 18.3m** and **5.4% Li<sub>2</sub>O in spodumene-rich pegmatites**



## Strategic Location & Infrastructure

Located in **South Dakota's Black Hills**, a **mining-friendly jurisdiction** with **road access, power, water, and proximity to active gold operations**



## Untapped Discovery & Expansion Upside

**Limited historic drilling (<50m depth)** leaves significant **expansion potential**, with a **5,000m drill program planned for 2025** targeting priority zones



## Experienced Leadership

**Proven track record** of mineral discoveries, project development, and capital raising, led by a team with **decades of experience in exploration & financing**



# Management & Board of Directors

## R. DALE GINN P.Geo.

President & CEO, Director

- ▶ **30+ years** of experience as a mining executive and geologist, **founding 10+ exploration and mining companies.**
- ▶ Led or was part of the discovery teams for **Gladiator, Hinge, 007, 777, Trout Lake, Edleston, and Tartan Lake deposits.**
- ▶ Helped **generate 10M+ ounces of gold** resources and **C\$500M in capital for exploration** and development.
- ▶ Experience with **Goldcorp, Harmony Gold, Hudbay, Wesmin, San Gold, Bonterra, and Gatling Exploration.**
- ▶ **Led the Bardwell/Boomerang Nickel discovery** near Timmins, Ontario, for Aston Minerals.

## NAV DHALIWAL

Executive Chairman

- ▶ **20+ years of experience** in capital markets, focused on maximizing shareholder value in the mining sector.
- ▶ Built a **global financial network** of institutional investors, family offices, analysts, brokers, and high-net-worth individuals.
- ▶ Long-standing relationships with **major gold and energy metal funds**; raised **over \$500M** for exploration and development.
- ▶ Currently serves as **President, CEO & Director of Renegade Gold, Executive Chairman of Badlands Resources, and Director of Mason Graphite.**

## P. JOSEPH MEAGHER CPA, CA

Director

- ▶ **CFO for multiple publicly listed companies** on the TSX-V and CSE with a background in financial management.
- ▶ **Chartered Professional Accountant (CPA, CA)** and Chartered Director (C.Dir.).
- ▶ **Formerly with Smythe CPA (2005–2011)** as Staff Accountant and Manager.
- ▶ Holds a Bachelor of Commerce from the University of British Columbia.

## LAURENCE FARMER

Independent Director

- ▶ **Legal and financial executive** with over a decade of international experience in M&A, corporate finance, and capital markets.
- ▶ Currently serves as **General Counsel, VP of Strategic Development, and Corporate Secretary** at **Osisko Development Corp.**
- ▶ **Co-Founder and CEO of Electric Elements Mining Corp.**, a privately held critical and precious metals exploration company.
- ▶ Played key roles in **structuring and closing over US\$20B** in mining sector transactions

## DOMINIC VERDEJO

Director

- ▶ **12+ years** of experience in **venture capital markets, corporate development, and mineral exploration.**
- ▶ Specialized in **market strategy, financing, and corporate growth**, holding director and senior officer roles in public companies.
- ▶ Extensive work in building and financing successful mineral exploration projects.

## RICK BOULAY

Director

- ▶ **40+ years** of experience in **exploration, mining, and project financing** across Canada and internationally.
- ▶ 15 years in mining and infrastructure financing, working with **Bank of Montreal, Royal Bank of Canada, and Bank of Tokyo.**
- ▶ **Arranged financing for mining projects**, nuclear reactors, pipelines, and offshore oil platforms.
- ▶ Extensive experience in public company management and financing in Canada and the U.S.



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TSXV:ROAR

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