# **SEC Disclosure for Exploration and Mineral Resources**

Direct tapping of U.S. Capital Markets for Exploration Financing

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# Make Hay while the Grass is Growing...

Recent convergence of macro factors trending to favorable conditions for North American explorers, especially U.S. companies.

- A. Increased **public awareness** of "critical minerals", supply chain security, ethics in mining, and foreign dependency.
- B. Strong commodity **pricing** in EV/battery related metals (Li, Co, Ni...) and growing long-term outlook/demand.
- C. Current U.S. Administration supporting Federal funding sources to support domestic supply chain.
- D. Updated **SEC regulations** providing ability to disclose Exploration Results and Mineral Resources.

### **Retail Investors Becoming Aware**

The Economist, February 19, 2022

United States | Between a rock and a hard place

#### The energy transition is sparking America's next mining boom

Can critical minerals be secured without wrecking the environment and sacred tribal lands?

The fight for rare Earth minerals

The focus of the meeting will be on 'managing competition'

Fox News, June 3, 2022

OPINION | REVIEW & OUTLOOK

#### Critical Mineral Contradictions

Does Biden know that his own regulators are blocking mine projects?

By *The Editorial Board* April 3, 2022 4:55 pm ET Wall Street Journal, April 2, 2022

3 critical minerals you might not have heard of (and the ASX shares that have surged because of them)

What are these critical metals? The Motley Fool, May 11, 2022



# Will unstable gas prices today be replaced by unstable mineral prices for batteries tomorrow?

Electric vehicles built on batteries and critical minerals will reduce oil related price spikes; herald a cleaner, more interconnected electric future

USA Today, July 30, 2021

# Sourcing and Supply Challenges

- Automotive manufacturers are collaborating with miners to address supply risks.
- Public scrutiny on "ethical" and secure sourcing of raw materials.
- Chinese supply concerns, COVID
- DoD contractor material sourcing.

Critical minerals supply and demand challenges mining companies face





**Tesla Conflict Minerals Report** 

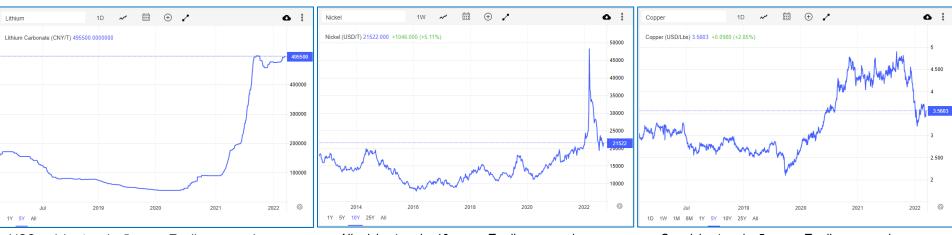
Pentagon suspends F-35 deliveries over Chinese alloy in magnet

Defense News September 7, 2022

Ford to buy lithium from ioneer for U.S. EV battery plant

Reuters, July 21, 2022

# **Pricing – Long-term Trend or Fad?**



LiCO<sub>3</sub> pricing trend – 5 years. Tradingeconomics.com

Ni pricing trend – 10 years. Tradingeconomics.com

Cu pricing trend – 5 years. Tradingeconomics.com

#### **Lithium Carbonate**

**Nickel** 

Copper

Economist consensus on **long-term**, **robust pricing for key critical minerals** due to projected demand increases and production or supply short-falls. Many end-users are seeking alternative sources, substitutions, recycling, and other means to address supply concerns.

## U.S. Government Support



#### FACT SHEET: Securing a Made in America Supply Chain for Critical Minerals

FEBRUARY 22, 2022 • STATEMENTS AND RELEASES

Department of Energy

DOE Launches \$140 Million Program to Develop America's First-of-a-Kind Critical Minerals Refinery

FEBRUARY 14, 2022

US DOE launches US\$675 million critical minerals R&D programme, calls for public input on direction

By Andy Colthorpe August 11, 2022

- Multiple Federal Departments involved with direct assistance on supply chain.
- USGS and State Survey funding for assessing resources (US\$74M).
- DoD awards MP Materials US\$35M to build HREE separation facility.
- Ioneer announced DOE Loan Programs
   Office invitation and progression.

#### The "Old" SEC

- Industry Guide 7 (1981)
- Annual Reporting for Mining companies only Reserves in 10-K reports (20-F for foreign issuer).
- Minimal supporting documentation.
- No definition of "Exploration" or "Resources"
- Single Qualified Person (QP) sign-off

#### Result:

- ➤ U.S. mining discounts Mineral Resources due to lack of public disclosure.
- Challenging raising funds unless declaring Reserves.
- Limited retail investor appetite.
- Head to the Great White North!



# Regulatory: The "New" SEC

- SEC regulations for public disclosure of mining properties updated (S-K 1300).
  - Required by the first fiscal year beginning after January 1, 2021
- Who does this impact?
  - U.S. securities registrants (U.S. listed companies) who have mining operations or interests which are material to their business or financial condition.
  - Also includes royalty, streaming, and integrated companies.



#### Canadian Get Out of Jail Free Card?

- Limited impact for Canadian companies with dual listings on U.S. markets.
- Canadian issuers (MJDS) can report based on conditions by filing Form 20-F and are permitted to disclosure that meets the requirements of NI 43-101.
- Eligibility:
  - US\$75M equity
  - Continuous disclosure min. 12 months with Canadian securities.



# "S-K 1300" (CFR Subpart 229.1300 - 1305)

 Detailed "Technical Report Summary", akin to NI 43-101 Technical Reprt.

- QPs taking full responsibility and subject to personal liability as experts under Section 11 of the Securities Act (1933)
- Explorers can now disclose Exploration Results and Mineral Resources.
- Filed annually with 10-K / 20-F



#### Parts of S-K 1300

- § 229.1300 (Item 1300) Definitions.
- § 229.1301 (Item 1301) General instructions.
- § 229.1302 (Item 1302) Qualified person, technical report summary, and technical studies.
- § 229.1303 (Item 1303) Summary disclosure.
- § 229.1304 (Item 1304) Individual property disclosure.
- § 229.1305 (Item 1305) Internal controls disclosure.
  - Understand the updated regulations, liability, filing, and associated requirements.
  - Definitions and disclosure are similar to, but vary from NI 43-101
  - Disclosure of controls and governance in Item 1305

## SEC Exploration Results - Definition



NOT PART OF A
DISCLOSURE OF
MINERAL RESOURCES
OR RESERVES.



A REGISTRANT MUST

<u>NOT</u> USE

EXPLORATION

RESULTS ALONE TO

DERIVE ESTIMATES

OF TONNAGE, GRADE,

AND PRODUCTION

RATES, OR IN AN

ASSESSMENT OF

ECONOMIC VIABILITY.



AVOID **PROMOTIONAL**OR EXAGGERATED
LANGUAGE.





#### SEC Mineral Resources - Definition



REASONABLE
PROSPECTS FOR
ECONOMIC
EXTRACTION.



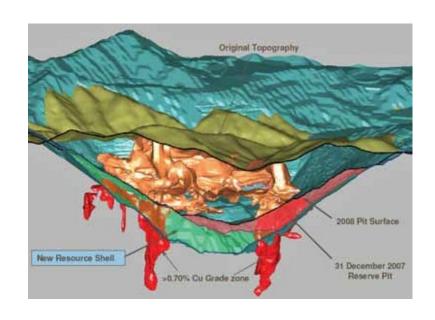
Cog, MINING DIMENSIONS, AND GEOLOGICAL CONTINUITY.



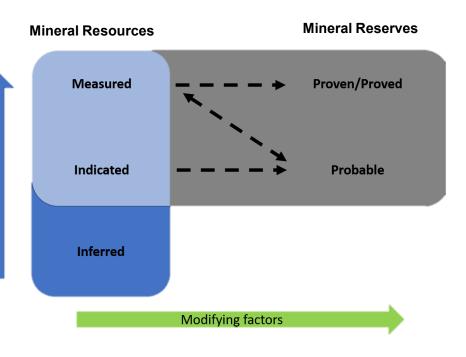
INITIAL ASSESSMENT (IA) STUDY



NOT AN INVENTORY OF MINERALIZED DRILLING INTERCEPTS OR SAMPLES.



#### Classification and Confidence



- Definition of categories
- Technical and economic conditions:
  - CoG, pit shell, recovery, and mining assumptions
  - Requires supporting Initial Assessment (IA) level study.
- Mineral Reserves
  - Requires PFS and demonstrated assumptions.

# The Qualified Person (QP)

- Days of single QP are gone!
- SEC recommends a QP per discipline area.
  - Relevant experience in specific activity.
- QPs are taking on the same liability as the board of directors and management team.
- Internal or External QPs allowed (unlike NI 43-101)
- No third-party disclaimers allowed
  - Reliance upon information provided is allowed in certain categories:
  - Macro-econ, marketing, legal, government factors.



# SEC Technical Report Summary (TRS)

Ch	Title	Ch	Title	Ch	Title
CII	Title	CII	Mineral Processing and	CII	Title
1	Executive Summary	10	Metallurgical Testing	19	Economic Analysis
2	Introduction	11	Mineral Resource Estimates	20	Adjacent Properties
3	Project Description	12	Mineral Reserve Estimates	21	Other Relevant Data and Information
4	Accessibility, Climate, Local Resources, Infrastructure, and Physiography	13	Mining Methods	22	Interpretation and Conclusions
5	History	14	Processing and Recovery Methods	23	Recommendations
6	Geological Setting, Mineralization, and Deposit	15	Infrastructure	24	References
7	Exploration	16	Market Studies	25	Reliance on Information Provided by the Registrant
8	Sample Preparation, Analyses, and Security	17	Environmental Studies, Permitting, and Plans, Negotiations, or Agreements with Local Individuals or Groups		

Capital and Operating Costs

Required for all disclosure

Mineral Resources

**Data Verification** 

Mineral Reserves



**Skeletons & dirty laundry??** 

## **Technical Studies**

	Resources Only	Resources & Reserves	R&R, Pre-Operations
Factors	Initial Assessment	Preliminary Feasibility Study	Feasibility Study
Other relevant factors	Appropriate assessments of other reasonably assumed technical and economic factors necessary to demonstrate reasonable prospects for economic extraction.	Reasonable assumptions, based on appropriate testing, on the modifying factors sufficient to demonstrate that extraction is economically viable.	Detailed assessments of modifying factors necessary to demonstrate that extraction is economically viable.
Capital costs	Optional. If included: Accuracy: ±50% Contingency: 25%	Accuracy: ±25% Contingency: 15%	Accuracy: ±15% Contingency: 10%
Operating costs	Optional. If included: Accuracy: ±50% Contingency: 25%	Accuracy: ±25% Contingency: 15%	Accuracy: ±15% Contingency: 10%
Economic analysis	Optional. If included: Taxes and revenues are assumed. Discounted cash flow analysis based on assumed production rates and revenues from available measured and indicated mineral resources.	Taxes described in detail; revenues are estimated based on at least a <b>preliminary market study</b> ; economic viability assessed by detailed discounted cash flow analysis.	Taxes described in detail; revenues are estimated based on at least a final market study or possible letters of intent to purchase; economic viability assessed by detailed discounted cash flow analysis.

**Technical Practice** 

Technical practices

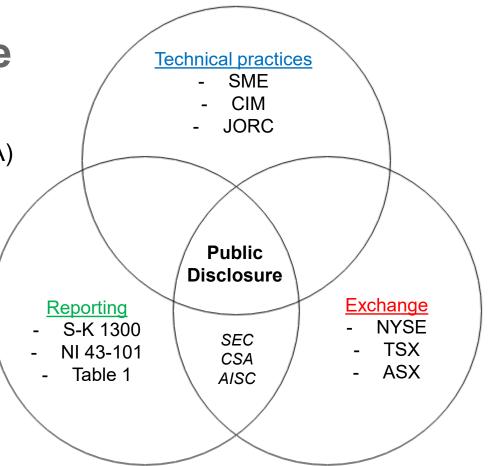
SME guide for reporting (USA)

CIM guidelines (CAN)

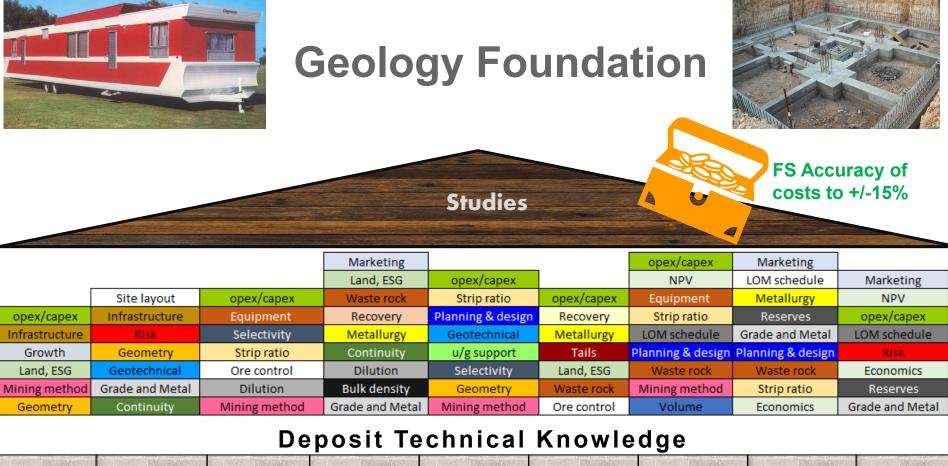
JORC code (AUS)

Reporting

Public Exchange



NI 43-101 or SEC report ≠ Sound Technical Work



Exploration Drilling Mineralization Sampling & Structure Mineralogy Geologic Resource Estimation Classification

#### Map to Public Disclosure?



- Focus on foundational technical work.
- Robust documentation.
- Identify QPs early.
- Disclosure is to "reasonably informed investors", <u>not</u> a dissertation or professional paper.
- Ensure sufficient evidence for all engineering and economic assumptions.
  - CoG, econ shell, pricing/costs, recovery, land, ESG, marketing, etc.
- Have a good securities lawyer.

### SEC Disclosure Take-Aways

- Risks: U.S. litigation, historic lack of Resources, onerous reporting, achieve cost estimate targets.
- U.S. keen for domestic supply.
- Demand, especially in "EV" or battery metals.
- Direct exposure to U.S. retail investors.
- Be prepared for lengthy disclosure and detailed discussion on risk.
- QPs must understand liability exposure and specific area of expertise.
- Focus on sound technical work, transparency, and risk.







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