What is a Pegmatite?
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What is a Pegmatite

Pegmatite

Coarse-Grained Granite

Occurs as Intrusive Dike

Can Be Strongly Zoned

Associated with Other Rare Elements

Wall Rock

Intermediate

Core

Crystal Growth

Intermediate

Layered

Wall Rock
What is a Pegmatite Cont’d

Deposit Grade Ranges 1-2% Lithium Oxide with Economics Assisted by the Presence of Other Rare Metals such as Caesium, Tantalum, Rubidium, Niobium, etc.

Mined by Traditional Hard Rock Methods (Open Pit)

Giant Spodumene Crystal

Greenbushes Open Pit Mine
**Pegmatite Mine Example**

**Tanco Mine**

- The Tanco pegmatite was discovered in 1929 completely hidden (under Bernic Lake), Manitoba.
- It consists of a subhorizontal body ~1520 metres long, 1060 m-wide, and up to 100 m-thick.
- It has been mined since 1967.
- Global role in the production of Ta, Cs & Li.
The Tabular Tanco Pegmatite is Internally Zoned

- Zones 40, 50 and 70: Lithium Enriched
- Zone 60: Tantalum Enriched
- Zone 80: Caesium Enriched (Eastern Half)
- Zone 90: Lithium-Rubidium-Tantalum Enriched

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