

Gossan's Industrial Mineral Opportunities in Manitoba

Presentation to:

Gossan Resources Limited

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Manitoba
Industry, Trade
and Mines



Industrial Mineral Opportunities in Manitoba



Manitoba's Business Advantage

- Strategic Central Location
- Mid-Continent Trade Corridor
- Maritime Province
- Near-Surface Geology ranging from Archean to Recent
- Diverse and Stable Economy
- Highly Competitive Business Costs
- Skilled Multicultural Workforce
- Well-developed Modern Infrastructure
- Abundant, Inexpensive Hydro-electric Power



Industrial Mineral Opportunities in Manitoba

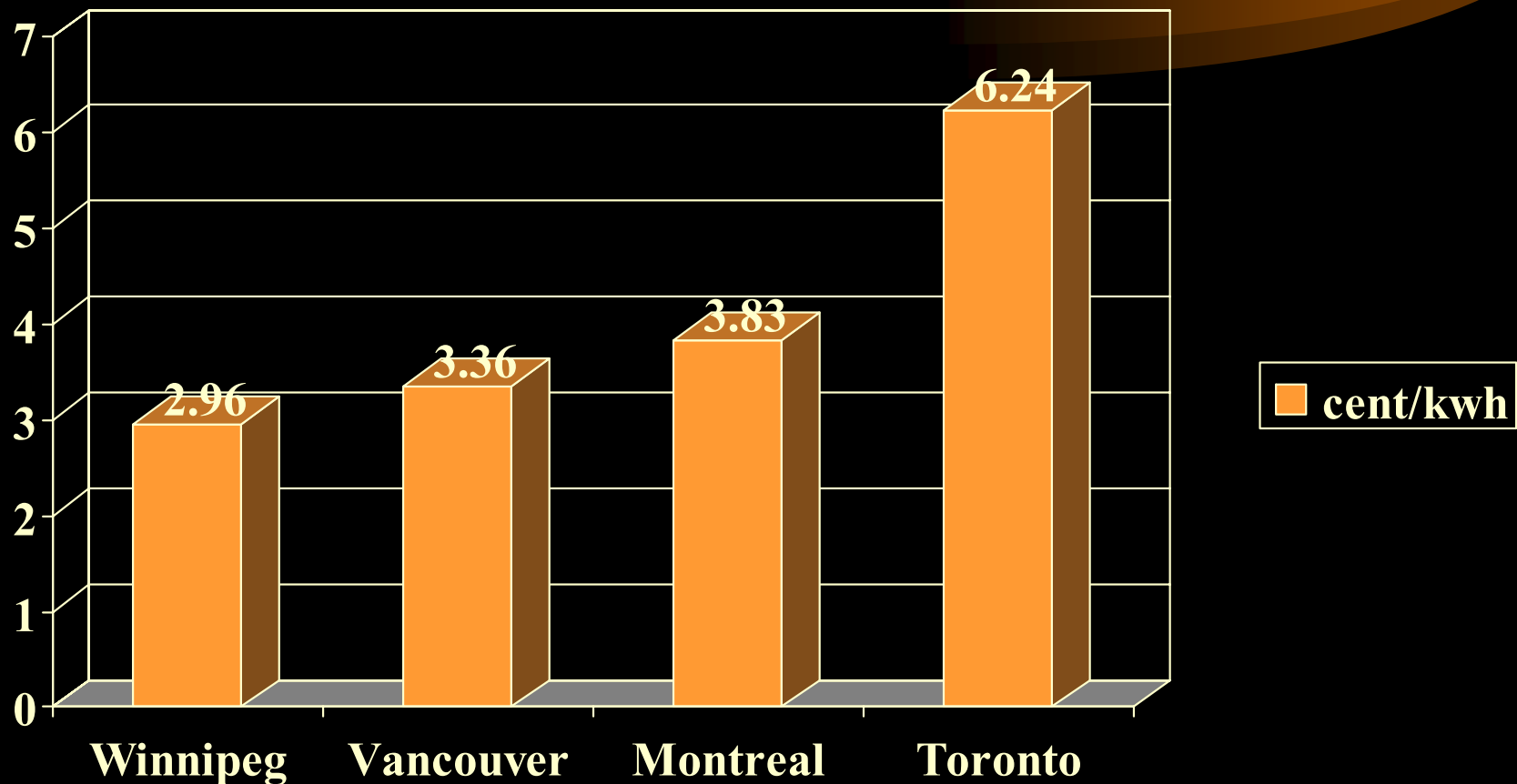


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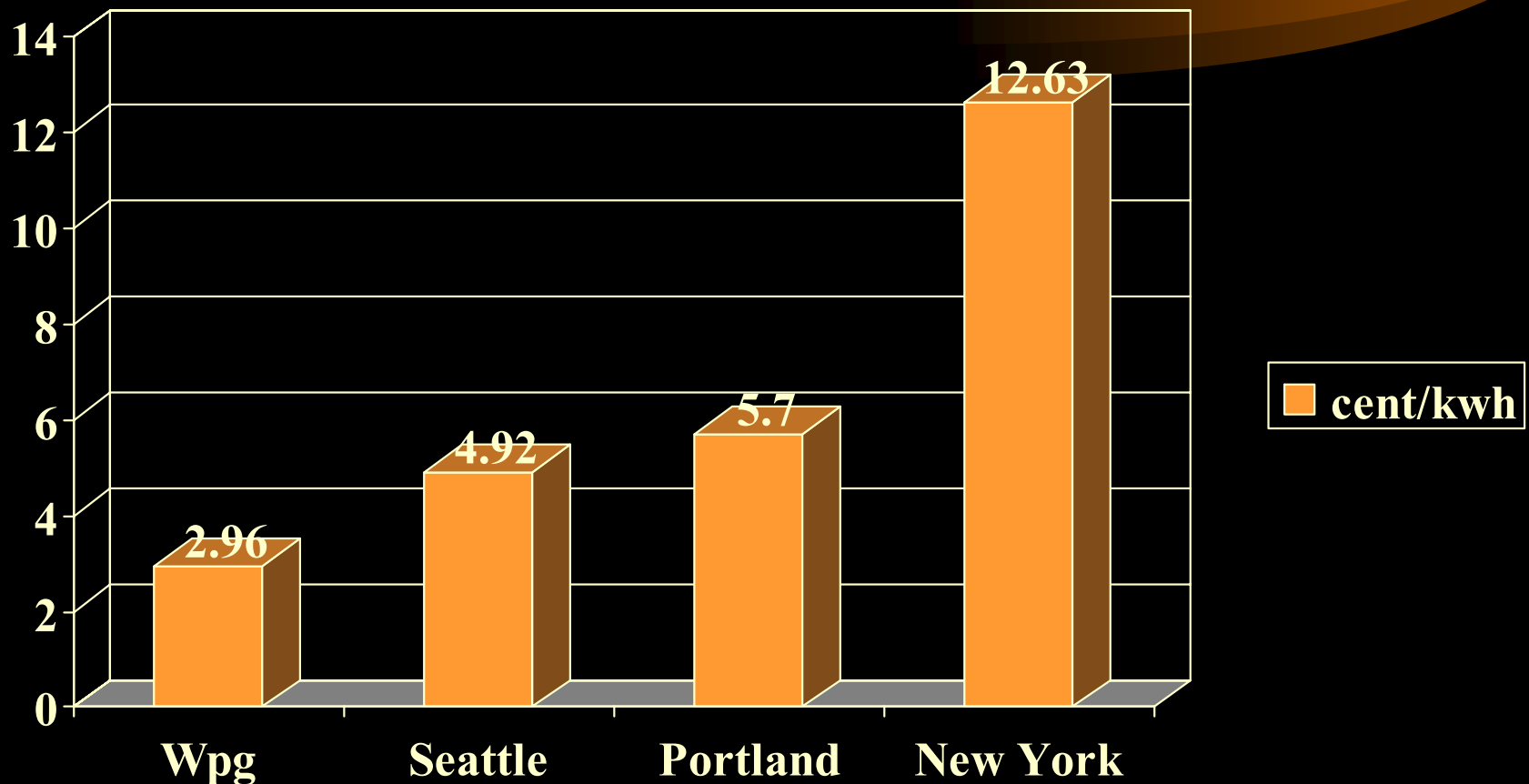
A comparison of Canadian Cities' electrical costs



General - Large Power

Source: Hydro Quebec,
May 2000

The N.A. comparison is even better...



General - Large Power

**Source: Hydro Quebec,
May 2000**

THIS GOVERNMENT RECOGNIZES THE IMPORTANCE OF THIS INDUSTRY AND WANTS TO SEE IT GROW!

Hon. MaryAnn Mihychuk P. Geo., Minister of Industry, Trade and Mines, November 19, 1999



- Over \$1 billion in mineral production
- 15% of total exports
- Employing over 4000 people

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Industrial Mineral Opportunities in Manitoba

- **Deposits & Occurrences**

- **Precambrian**

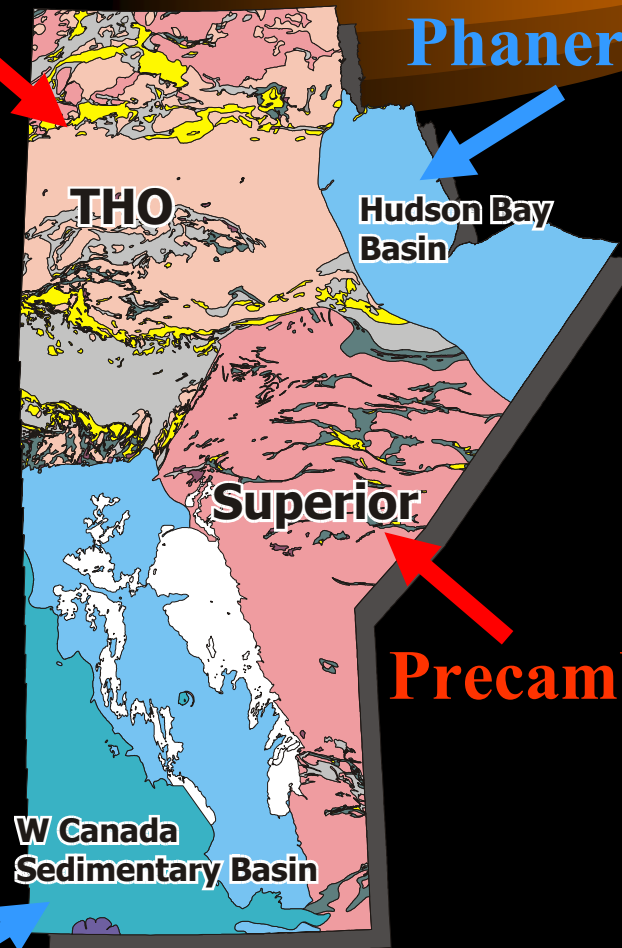
- Superior Province (Archean)
- Trans-Hudson Orogen (Proterozoic)

- **Phanerozoic**

- Western Canada Sedimentary Basin
- Hudson Bay Basin

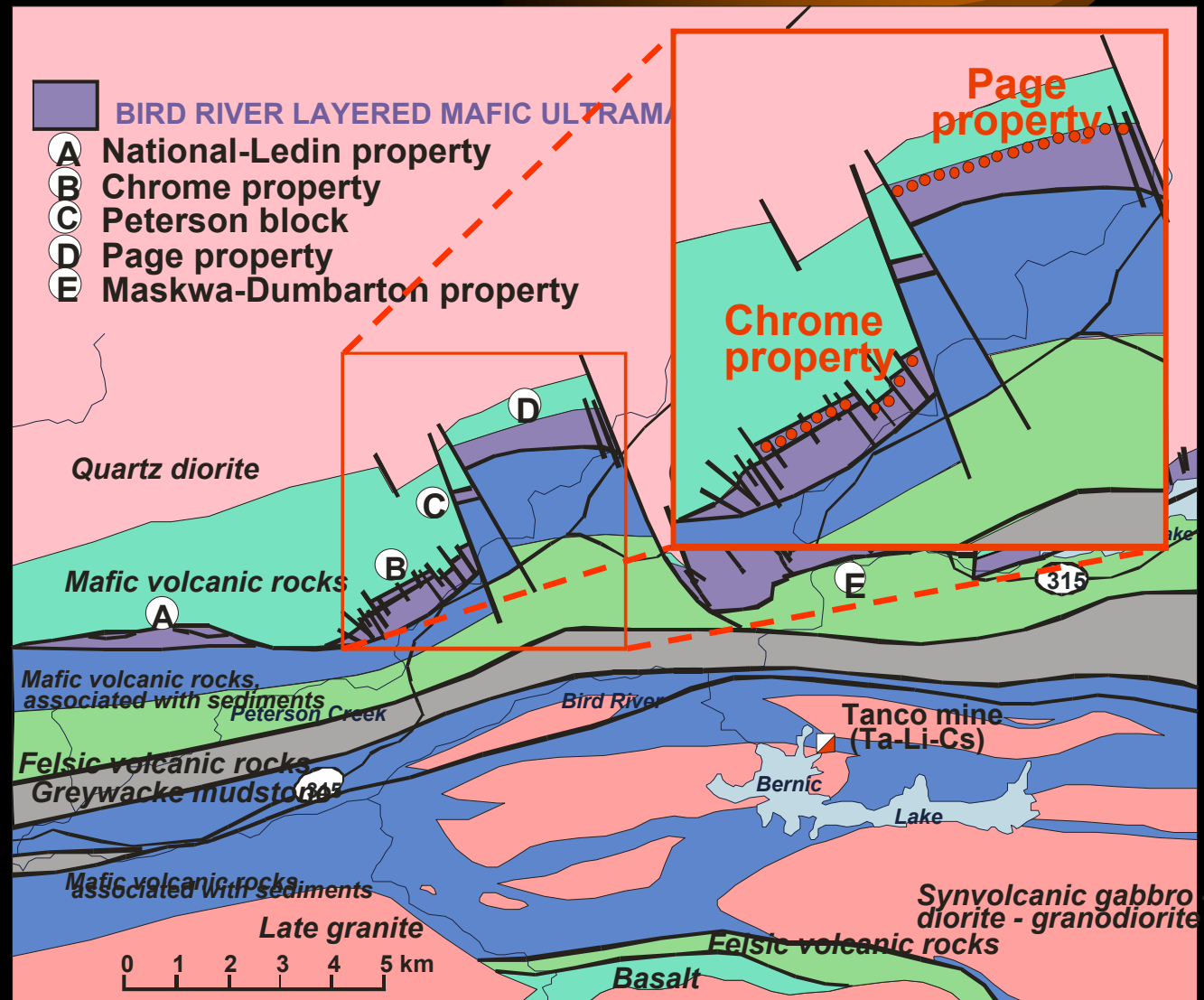
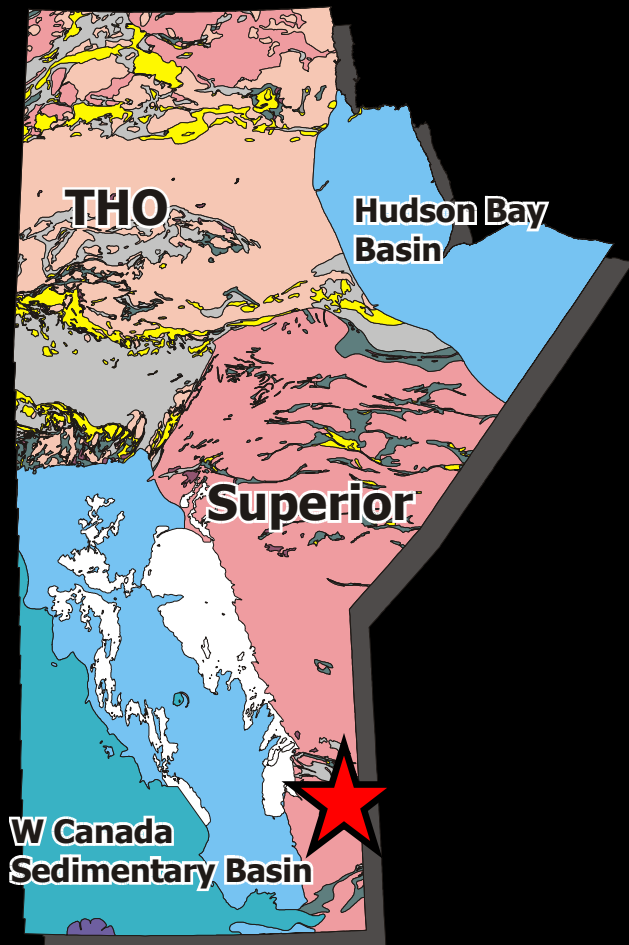
Precambrian

Phanerozoic



Phanerozoic

Precambrian Chromite

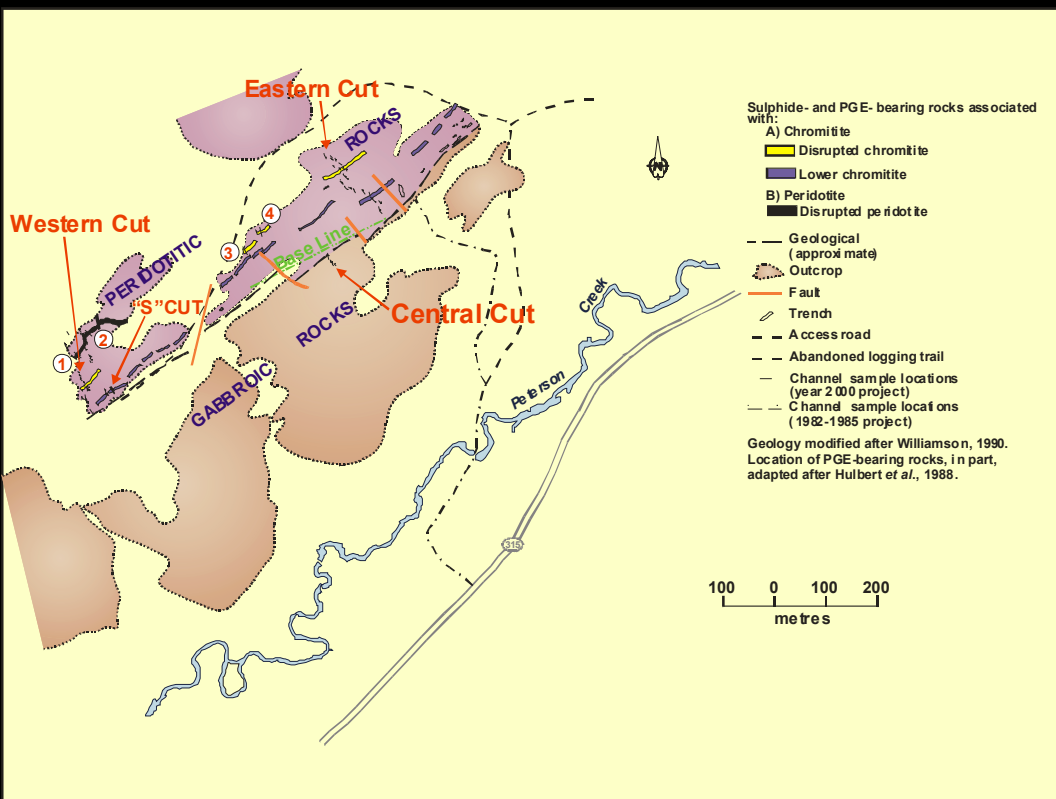


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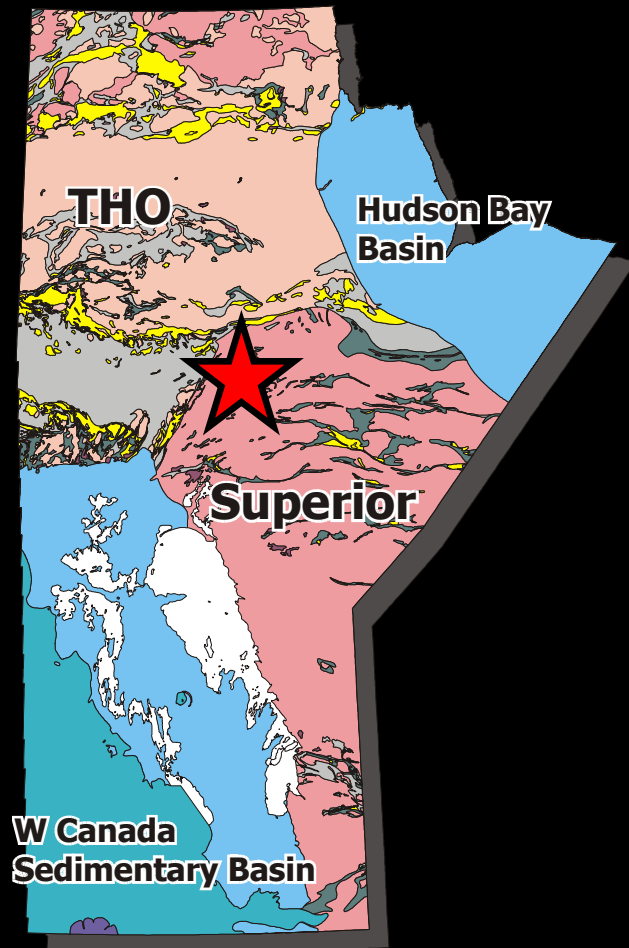


- **Chrome Property**

- Bird River Sill, SE MB
- Gossan Resources Limited
- 5 million tonnes of 7% Cr_2O_3 , as defined by 19 drillholes in 1942
- 12.8 m wide, 900 m long and 100 m deep
- Can be upgraded to 27% Cr_2O_3 by gravity methods



Precambrian Ilmenite & Magnetite

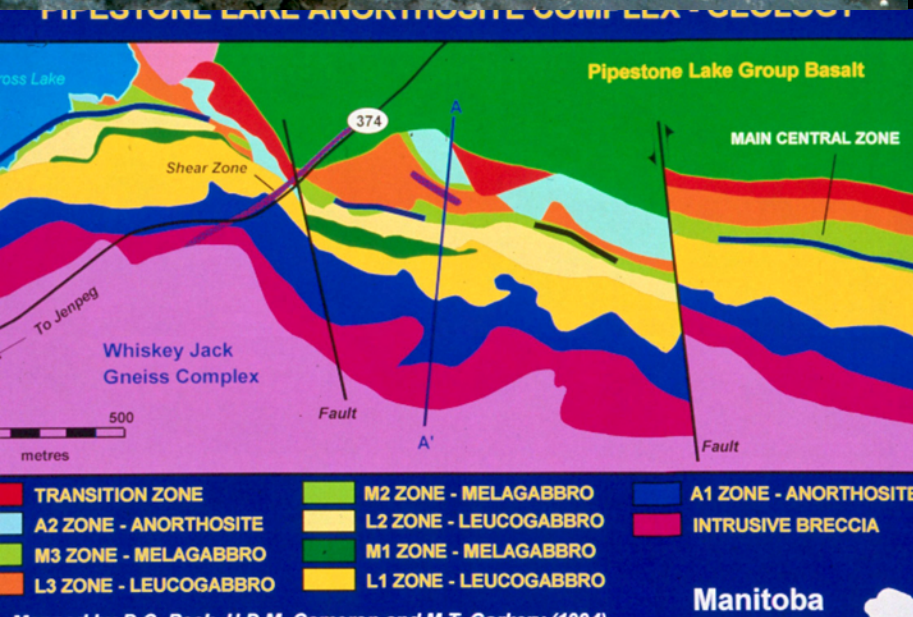


- Pipestone Lake Anorthosite Complex
 - 15 km strike length
 - Gossan Resources Limited & Cross Lake Mineral Exploration Inc.
 - 243 million tonnes 9.28% ilmenite, 23.6% magnetite and 0.28% V_2O_5 to a depth of 300 m
 - additional resources present at Kiskitto Lake, 50 km SE

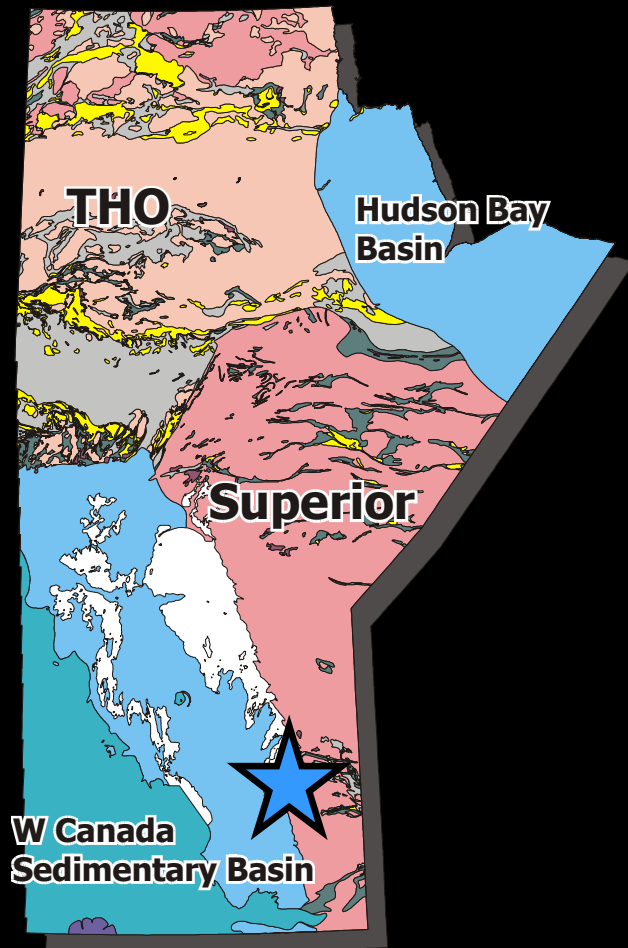
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Phanerozoic Silica Sand



- Seymourville
 - Ordovician Winnipeg Fm
 - Gossan Resources Limited and others.
 - Occurrence is 15 m thick and contains a potential 45 million tonnes of silica sand. The sand is exposed at surface or occurs beneath thin overburden.
 - After washing, a similar sand from Black Island Quarry was marketed as being over 99.5% SiO₂.

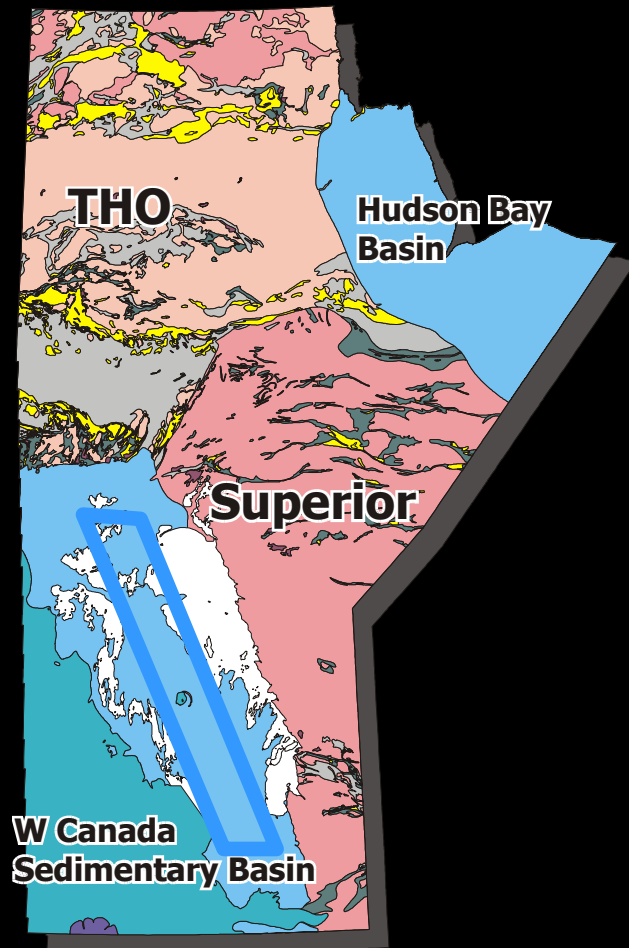
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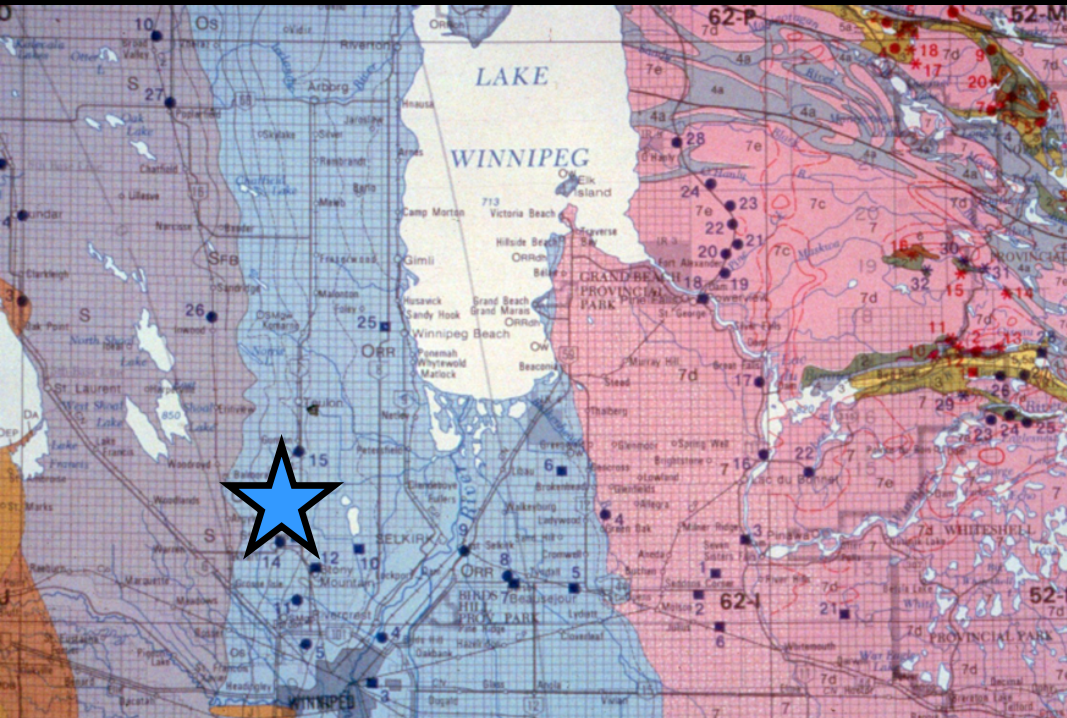
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Phanerozoic High-purity Dolomite



- Interlake Area
 - Ordovician/Silurian Stonewall Fm. and Silurian Interlake Group
 - Abundant outcrops of high-purity dolomite (21.6% MgO with <1% residue).

Phanerozoic High-purity Dolomite

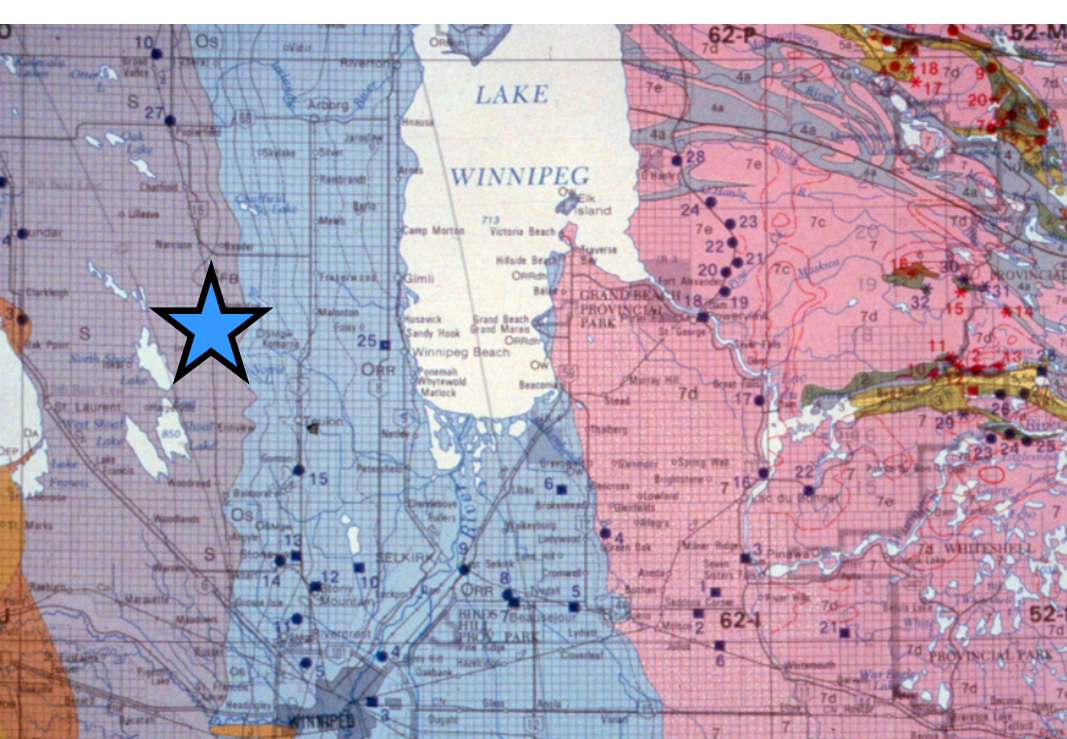


- Stonewall Quarry
 - Ordovician/Silurian Stonewall Formation.
 - Production of dolomite and crushed dolomite from 1880 to 1965 by Winnipeg Supply and Fuel Company, Limited.

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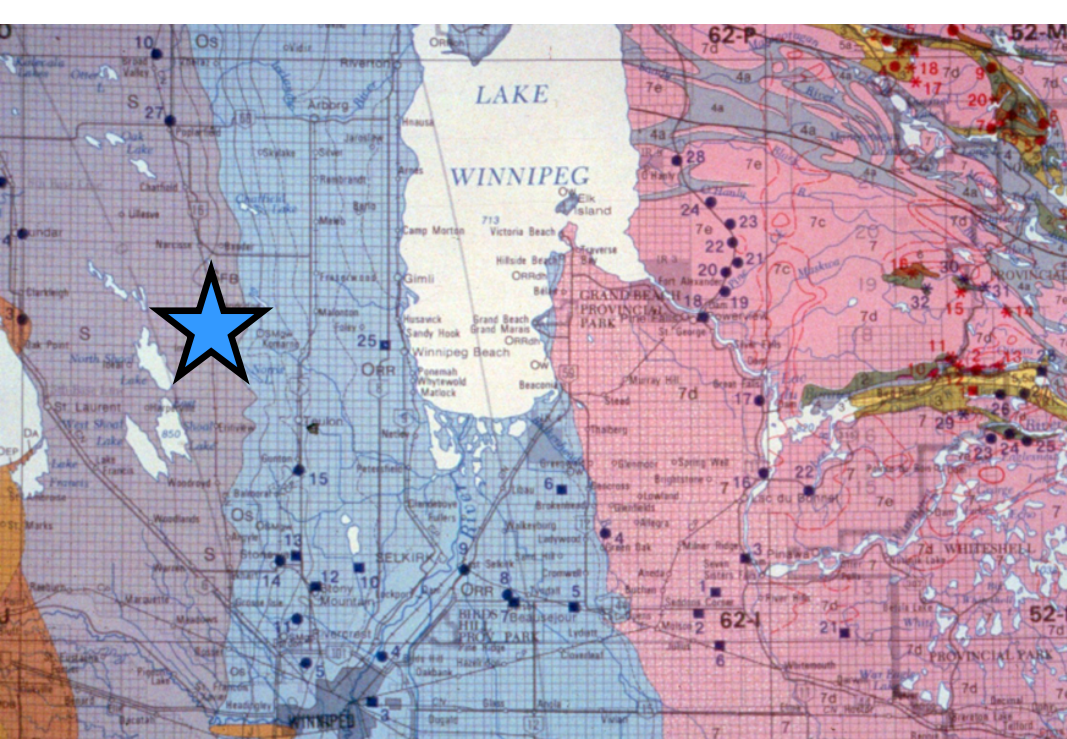
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Phanerozoic -purity Dolomite

- Sandridge Area
 - Silurian Fisher Branch Formation
 - Gossan Resources Ltd.
 - 80 km north of Winnipeg
 - Geological resource of 67 million tonnes of dolomite averaging 21.6% MgO with less than 0.23% residue.
 - Additional 33 million tonnes of similar grade is inferred





Phanerozoic -purity Dolomite

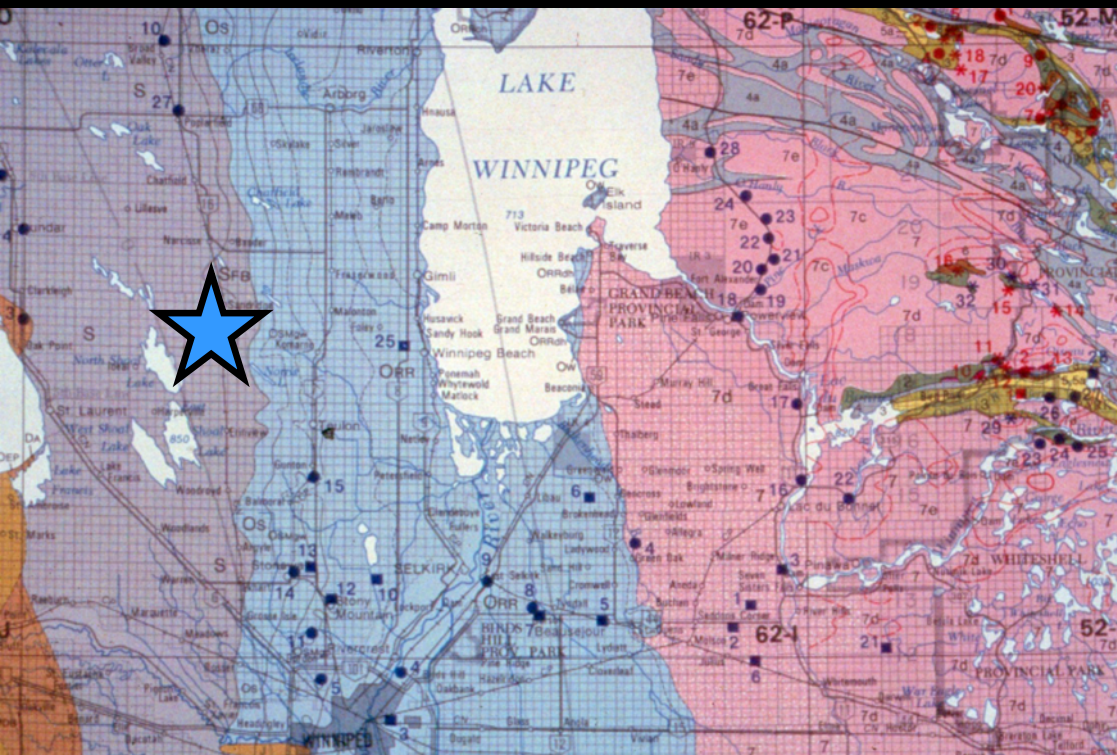
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Phanerozoic High-purity Dolomite

- **STRENGTHS OF THE SANDRIDGE DEPOSIT**

- Each quarter section should contain almost 1.9 million tonnes of high purity dolomite for each metre of depth (excluding thin marker beds and infill)
- Minimal stripping required
- Very low farming interest
- Very low water table
- Skilled labour available
- Nearby communities with many urban amenities
- Close proximity (120 km) to Manitoba's Capital Region
- All-weather Provincial Highway
- CP railroad track between Winnipeg and Arborg, located 45 km to the east



Manitoba Mining & Minerals Convention 2003

*Winnipeg, Manitoba
November 13-15, 2003*

On the Web

www.mineralsconvention.com

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