# Introduction to Metallic and Industrial Mineral Rights in Alberta

Coal & Mineral Development Unit, Alberta Energy



#### Alberta's Potential for Gem and Metallic

**Mineral Wealth** 



Diamond
Occurrence

Diamond Indicator Trend

Gold (Au)

Lead-Zinc (Pb-Zn)

> Copper-Zinc (Cu-Zn)

Copper-Silver (Cu-Ag)

Nickel-Zinc-Lead, Gold (Ni-Zn-Pb, Au)

Titanium-Zirconium

lron (Fe)

Uranium (U)

\* Astrobleme



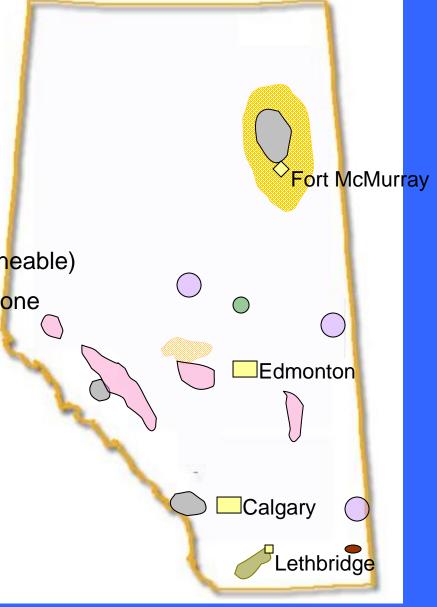
#### **Mining Locations**

#### in Alberta

Excludes sand, gravel and sulphur

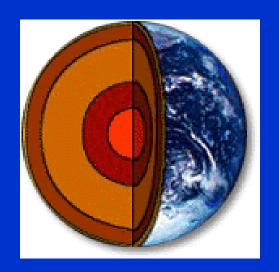
#### **Legend**

- ☐ City
- Coal
- Oil sands (surface mineable)
- Limestone & Other Stone
- Salt
- Placer Gold
- Brick Clay & Shale
- Iron & Magnetite
- Ammonite Shell



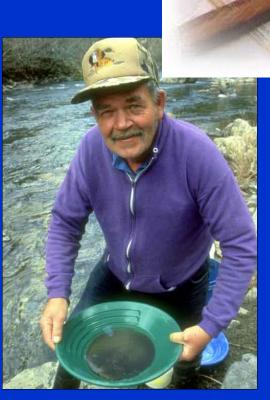
#### Mines in Alberta

	Million Tonnes per year
Syncrude Oil Sands Mine (plus 175.4 million tonnes of overburden)	155.0
Coal: Highvale Mine	12.5
Limestone: Proposed Muskeg Valley quarry	7.0
Limestone: Other major operations combined	5.6
Coal: Genesee Mine	4.5
Coal: Sheerness Mine	3.4
Coal Valley Mine	2.3
Coal: Paintearth, Vesta, Whitewood, Grande Cache Mines	Over 2.0 per mine
Small Mines: Coal; Iron; Ammonite	Less than 0.05 per mine



### MINERAL RIGHTS





## Province as Owner of Minerals

- Mines and minerals transferred from federal government to Alberta in 1930
- Province owns mines and minerals in 81% of land in Alberta

### Role of Alberta Energy

- Minerals tenure
  - Grants mineral rights to private developers for development
- Collection of mineral revenues
  - Royalties; Rent; Bonus Bid
- Advocates reasonable surface access
  - Surface access is handled through Sustainable Resource Development, the Surface Rights Board and private contract with landowner

# Metallic and Industrial Mineral Agreements

- A permit ("claim") grants the right to explore for Alberta-owned metallic and industrial minerals
- A lease grants rights to Alberta-owned metallic and industrial minerals for the purpose of development and mining

## Goals of Alberta Minerals Tenure

- To give industry the opportunity to explore and develop minerals for the greatest benefit of Albertans
- To place mineral rights in the hands of those with the interest and means to explore and develop Alberta's mineral resources
- To make mineral rights available to others as soon as possible upon termination or expiry of an agreement

# The Right to Conduct Exploration and Mining Activities

 The right to the minerals is separate from the right to conduct mining and exploration

## Mineral Rights for Exploration in Alberta

 A permit ("claim") grants the right to explore for Alberta-owned metallic and industrial minerals

Application fee: \$625 per agreement

Size: 16 to 9,216 hectares

Term: 14 years, not renewable

Annual rent: None

Work requirement: Yes, exploration work

### **Map Staking**

- Alberta adopted map staking in 1967
- Lands are selected from a map
- Ground staking not required to stake claim
- Other provinces using this method today:
  - British Columbia
  - Newfoundland
  - Nova Scotia
  - Quebec
  - Saskatchewan and Manitoba in the surveyed areas of those provinces

### Work Requirement

- To maintain a a permit, exploration expenditures and results must be reported to Alberta Energy.
- Type of work accepted on a permit:
  - Prospecting
  - Trenching and drilling
  - Geological, geophysical, geochemical surveys
  - Laboratory work, assay and analysis

# **Exploration Work Requirements in Alberta**

- Every 2 years must file work on permit
  - Report cost of work done
  - Report on geological data and results
- Report released to public after 1 year
- Work required goes up over time:

```
Period 1 (Year 1-2) $ 5 / hectare
```

Periods 2 and 3 (Year 3-4, 5-6) \$10 / hectare

Periods 4 thru 7 (Years 7-14) \$15 / hectare

### **Drill Core and Samples**

- On behalf of the Minister of Energy, Alberta Energy may direct an exploring company to provide drill core or mineral samples
- Material is selected by an Alberta Geological Survey (AGS) geologist in negotiation with the company
- Material is delivered to the Provincial Mineral Core Research Facility in Edmonton, operated by AGS
- Alberta Government makes drill core and samples public after 1 year

## Metallic and Industrial Mineral Lease

- A lease grants Alberta-owned mineral rights for the purpose of development and mining
- Company can request a permit go to a lease if deposit is found and mining is being considered
- If a deposit is already known, a company can apply for a lease without holding a permit
- Lease usually grants right to all metallic and industrial minerals in that location, not just those of immediate interest to the company

#### Terms of A Lease

Term: 15 years, renewable

Size: Maximum 2,034

hectares

Annual Rent: \$3.50 per hectare

Work Requirement: None, but can only

renew if a mine is

operating or planned