## OVERVIEW OF MINING LAW AS PRACTICED IN THE WEST

## A. What is Mining Law?

- 1. Real estate and environmental law practiced with different vocabulary.
- 2. Public lands law 53% of Oregon is public lands. BLM and Forest Service both at about 16 million acres in state...
- 3. Financing.
- 4. "It takes a Village."
- B. Current minerals of importance.
  - 1. Gold & use of cyanide
    - i. 1.1 million tons of hydrogen cyanide produced a year; 6% for reagents for gold processing. Rest for plastics, adhesives, cosmetics, pharmaceuticals, food processing and in table and road salts.
    - ii. Other possible agents are less stable such as bromide & chloride.
    - iii. Most cyanide is used in heap leaching in Nevada.
    - iv. Calico Resources proposes vat leaching of gold ores using cyanide to dissolve the ore at Grassy Mountain. Currently envisioned would pass 40% of ore through vats; rest recovered by gravity separation.
      - 1. Ore is ground to powder like consistency in ball mills
      - 2. Milled ore is placed in vats and agitated which increase contact with cyanide and oxygen.
      - 3. Gold dissolves as a stable gold-cyanide complex and precipitates using a highly activated carbon either in the vat or in a separate tank.
      - 4. Cyanide occurs naturally in apple seeds, apricot seeds, almonds, alfalfa, sorghum and root vegetables. Incomplete combustion during forest fires is a major source of cyanide in the environment.
  - 2. Aggregate, sand and gravel big Oregon mineral. State receives approximately \$1.3 million/year in mineral royalties, mostly from submerged lands.

- 3. Rare earths Chinese control 97% of production; but huge environmental issues.
- 4. Coal if it can be exported.
- 5. Uranium for those willing to face delay.
- 6. Oregon State-owned lands have historically produced gold, diatomite and gas.
- 7. Oregon and Washington role will be limited because of geology too much basalt.

## C. Structure of Mining Transactions

- 1. Leases private and governmental.
  - i. Major concern is term and size of parcel
  - ii. Tenure of title under lease landlord issues.

## 2. Sale –

- i. Assures title security as mines are expensive projects and money generally borrowed.
- ii. Uranium mills by law go to Federal govrnment after reclamation by law
- 3. Alaska Natives- rarely sell land for mineral uses; exception millsites and environmentally suspect land.
- 4. "Joint Venture" between mining entities.
  - i. Spread risk.
  - ii. Combination of land owner and mineral explorer.
- 5. Mining Claims on Federal Land
  - i. Oregon BLM public room is at 333 SW  $1^{St}$  Ave
  - ii. Open 8:45-4:30.
  - iii. 503-808-6001.
- D. Applicable Law.

- 1. All existing environmental laws.
- 2. Not OSHA but MSHA for safety.
- 3. General Mining Law of 1872.
  - i. Yes, you can still stake mining claims.
  - ii. Must be land open for location no withdrawal, no prior claim.
  - iii. No royalty.
  - iv. Right of self initiation.
- 4. General Leasing Act of 1920.
  - i. Basically all other minerals coal, oil and gas, trona, geothermal leases, phosphate.
  - ii. At whim of government.
- E. Risk Factors for Location of Mine.
  - 1. Mineral deposit and metallurgy.
  - 2. Transportation.
  - 3. Location can't move a mine like a Wal-Mart.
  - 4. Political risk example fracking.
  - 5. Legal and regulatory risk.
  - 6. Financing.
  - 7. Tenure of title.
  - 8. Environmental issues.
  - 9. Business climate dependent perhaps on size
  - 10. Labor availability
  - 11. Reclamation burdens and surety required.