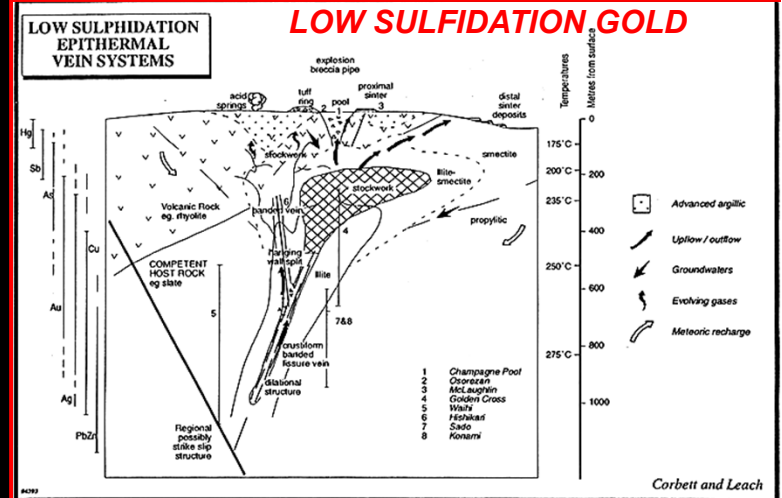


Hudson, 2004

The Comstock Lode of Virginia City, NV, is a silver-gold low sulfidation system with intermediate and advanced argillic alteration. It lies ~27 km south of Reno. The oldest exposed lithologies are Mesozoic metasedimentary and metavolcanic rocks, which are intruded by Cretaceous granodiorite. These units are unconformably overlain by Oligocene and early Miocene silicic ash-flow tuffs, thick andesite flows and associated breccias of the Miocene Alta Formation, the main host of orebodies in the district and is the unit most affected by hydrothermal alteration. The main ore zones are located along the Comstock fault and associated cross faults. Thick veins of crushed quartz with silver sulfosalts, native silver and native gold are found in proximity to the faults. The main ore mineralization episode at Comstock is middle Miocene with the high-sulfidation mineralization older than the main Lode mineralization. Alteration assemblages include: widespread, older propylitic assemblage, quartz-alunite alteration (high sulfidation), quartz-sericite-montmorillonite-pyrite alteration assemblage found peripheral to the gold-silver veins during mineralization.

# VIRGINIA CITY, NV COMSTOCK LODGE

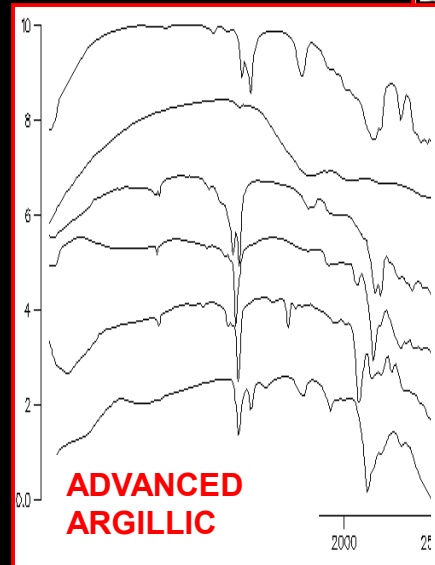
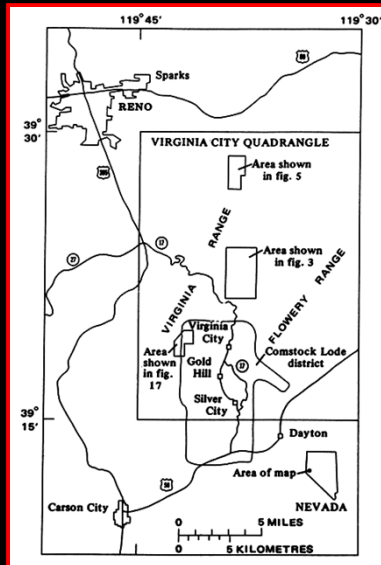
## INTERMEDIATE ARGILLIC



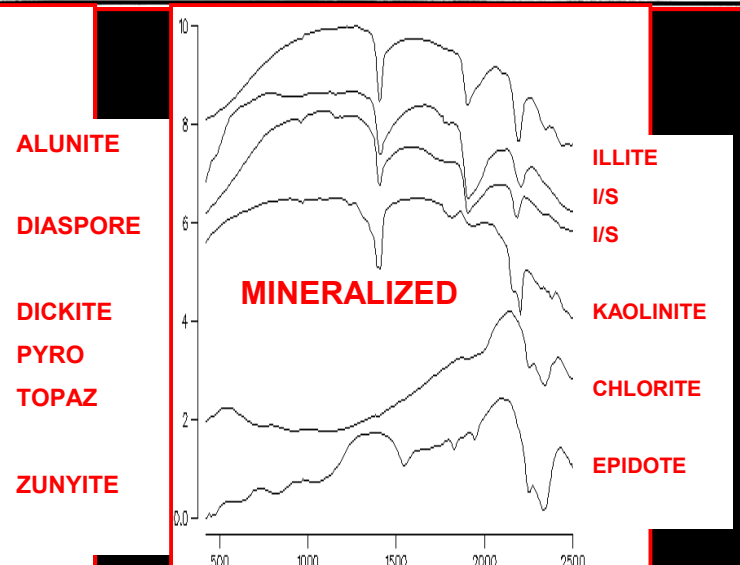
Corbett and Leach

## GEOLOGY

- Cristobolite + kaolinite + alunite
- Illitic
- Kaolinitic, alsic, alunitic
- Silica + kaolinite
- Propylitic-c (epidote absent)
- Propylitic-e (with epidote)
- Propylitic-a (chlorite + illite + K-spar + albite)
- Sericitic
- Metamorphic rocks
- Unaltered units
- Illitic along faults
- Quartz + adularia vein
- Calcite + quartz vein
- Concealed vein
- Stockwork veins



ADVANCED ARGILLIC



- ALUNITE
- DIASPORE
- DICKITE
- PYRO
- TOPAZ
- ZUNYITE

MINERALIZED

- ILLITE
- I/S
- I/S
- KAOLINITE
- CHLORITE
- EPIDOTE

