

## How will the Mine Work?

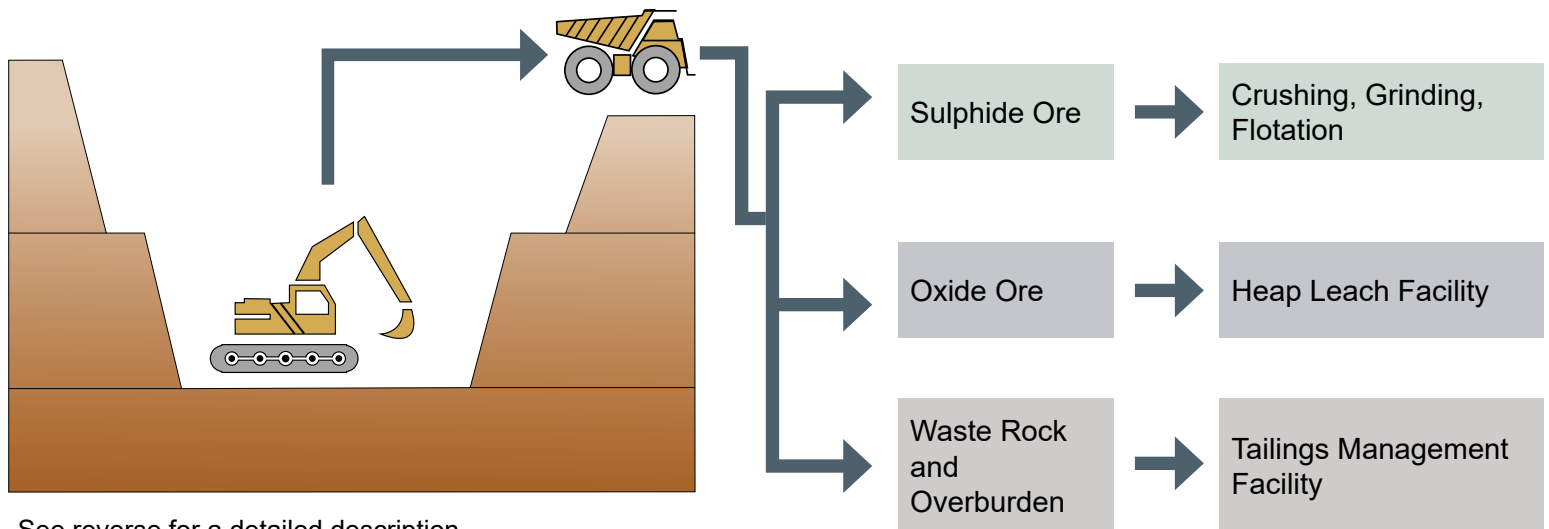
The Casino Project proposes a conventional open pit mine. An open pit mine involves surface mining and does not require tunnels or shafts. The Project is an open pit mine because the copper, gold, molybdenum, and silver are found relatively close to the surface. The mine pit is where the ore is extracted from.

There are three types of rock and overburden that come out of the pit:

- Sulphide ore goes through milling to extract copper, gold, molybdenum, and silver
- Oxide ore is placed in a heap leach facility to extract gold, silver, and copper
- Waste rock and overburden



An example of an open pit.



See reverse for a detailed description



Ore after it has been blasted. The white lines are marks left over from the drill holes.

## Extraction

First, rock must be broken using explosives so that it can be excavated. To do so, blast holes are drilled into the ground and explosives are placed inside. This makes ore and waste rock small enough so that it can be loaded into trucks for transportation.

Casino will have a fleet of large equipment to move materials and maintain the working areas of the pit, stockpiles, and haul roads.

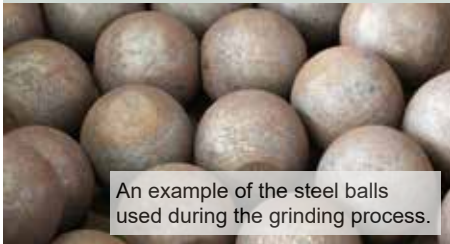
Waste rock and ore are loaded into trucks. Sulphide and oxide ore are delivered to separate processing facilities to be crushed.

## Sulphide Ore

A crushing circuit makes sulphide ore into smaller pieces that are ready for further processing.

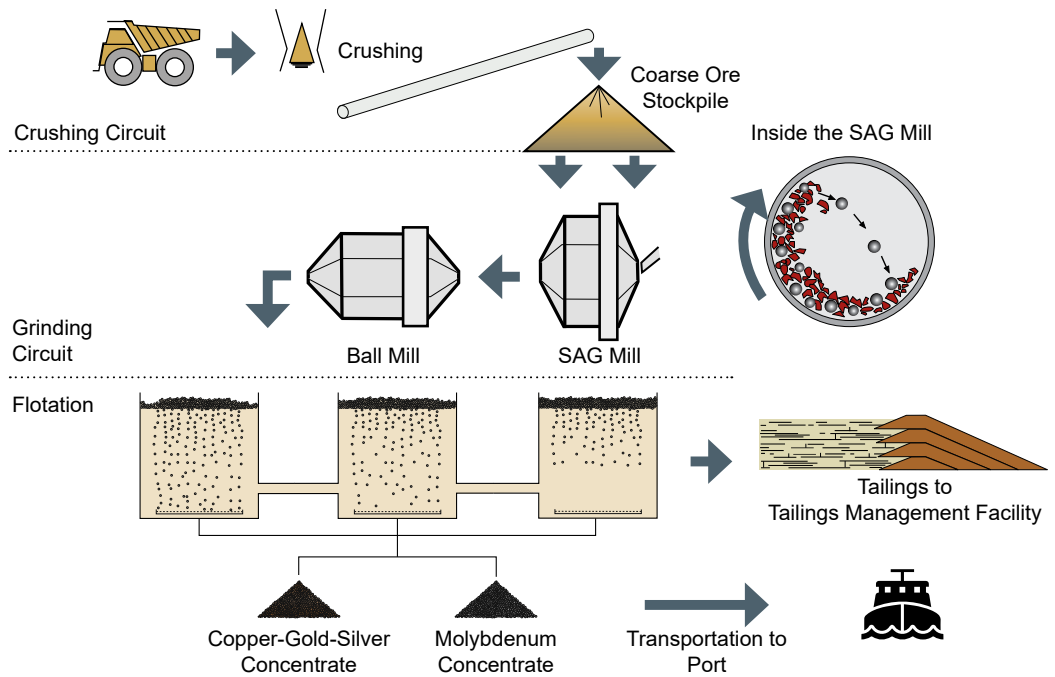
Next, a grinding circuit produces a finer product by putting ore through a semi-autogenous (SAG) mill, followed by a ball mill. These mills spin to grind the ore into even finer particles. The SAG mill uses the ore itself as a grinding medium; the ball mill uses steel balls.

Lastly, a flotation process recovers copper, gold, silver, and molybdenum into a copper-gold-silver concentrate and a molybdenum concentrate.



An example of the steel balls used during the grinding process.

## Crushing, Grinding, Flotation



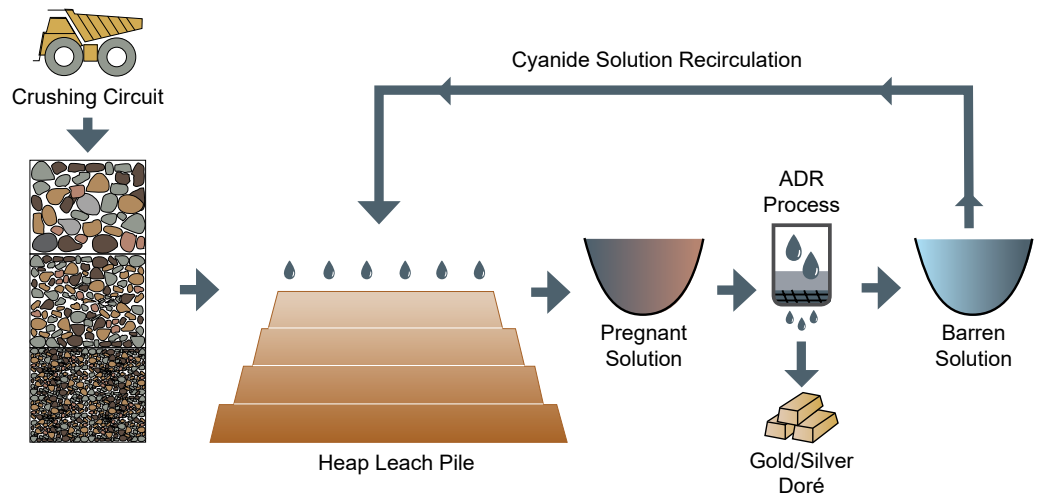
## Oxide Ore

A crushing circuit breaks the oxide ore into smaller pieces. Those pieces are then ready for further processing.

Oxide ore is stacked in the heap leach facility and a cyanide solution is applied. This releases the gold, silver, and copper from the crushed ore.

Next, the gold and silver are recovered by the Adsorption/Desorption/Recovery (ADR) process. At the end of the ADR process, gold and silver doré bars are produced. Copper is also recovered as a copper precipitate.

## Heap Leach Facility



## Waste Rock and Overburden

Waste rock and overburden are taken to the Tailings Management Facility.

## Tailings Management Facility

