

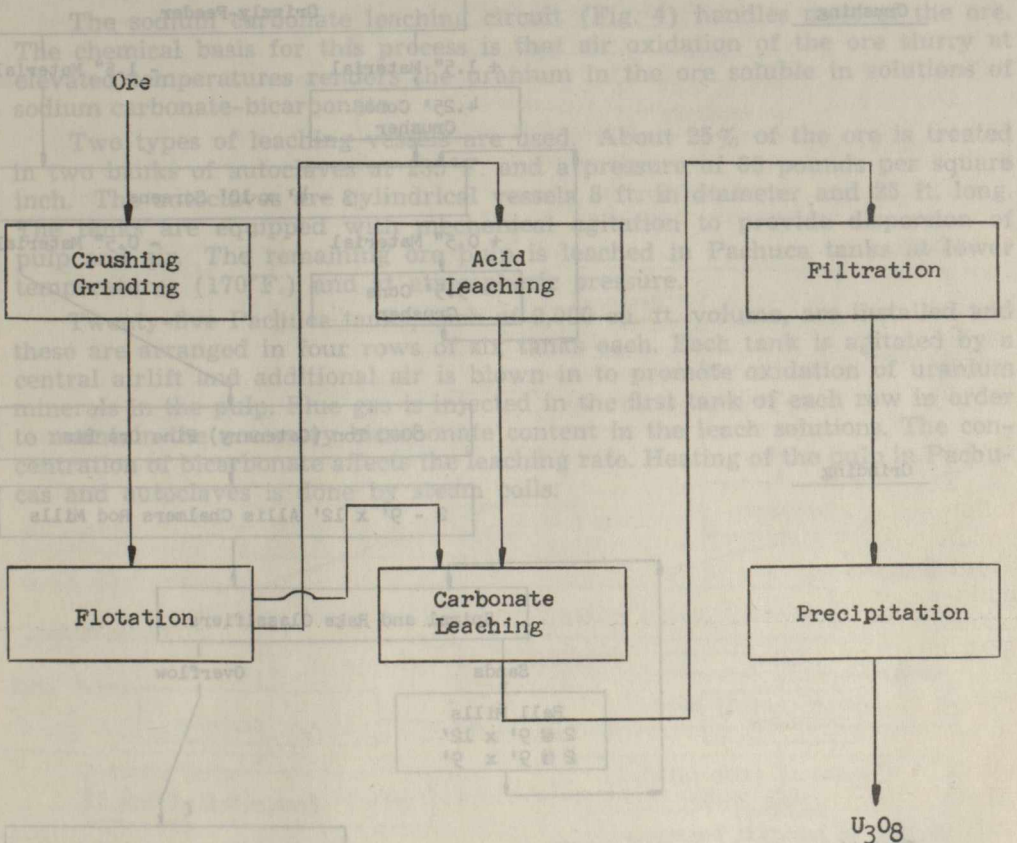
Uranium Leaching (Figs. 3 & 4)

The sulphide flotation concentrate is thickened and filtered and the filter cake is washed to remove the alkaline mill solution which consumes acid. The remaining concentrate is pumped to the acid leaching circuit (Fig. 3) where it is leached with weak sulphuric acid in order to remove the iron and manganese chlorides which are added to provide oxidizing conditions.

The Pachuca discharge pulp is filtered in two stages and the filter cake is agitated with magnesia to separate the contained uranium. A large insoluble residue which is settled and sent to the main carbonate leaching circuit.

The acid leaching section is small compared to the main leaching circuit since only a small percentage of total ore is acid leached.

FIGURE 1



SIMPLIFIED FLOWSHEET OF 2000-TON/DAY BEAVERLODGE MILL