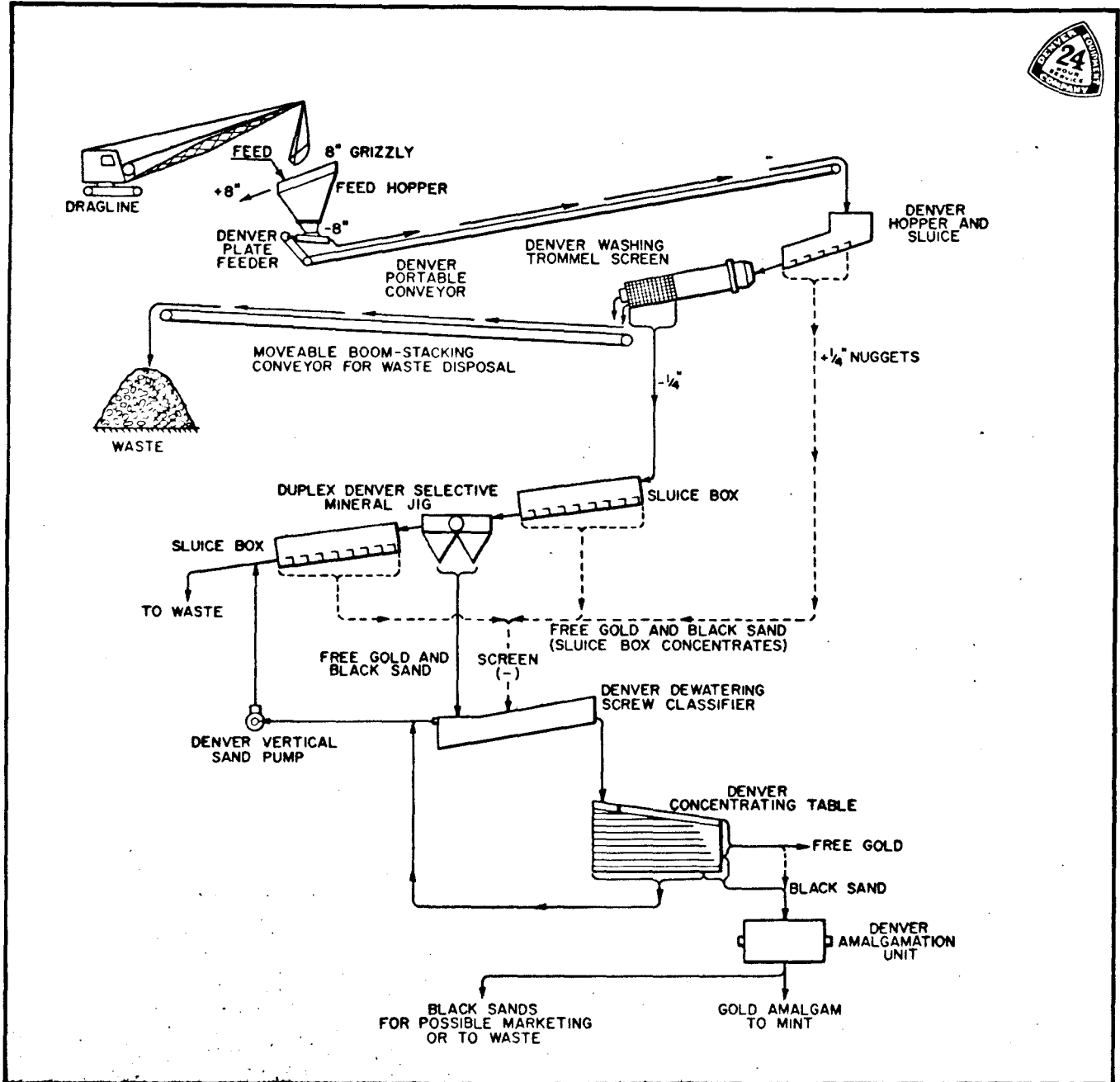


# GOLD, PLACER DEPOSITS



## PROCESSING LARGE PLACER DEPOSITS

### The Problem

The handling of large quantities of gold-bearing gravels is of utmost importance for most successful placer operations. In addition to providing efficient washing and recovery methods, the placer plant should be constructed as a compact unit that can be readily moved. This is an important consideration because the washing and recovery plant should be close to the mining area at all times to minimize the distance that the gravels must be transported. A second consideration is the necessity of providing a means for discarding the tailings.

### The Flowsheet

The above flowsheet was developed to meet the foregoing requirements and has a capacity of approximately 50 cubic yards of bank-run gravel per hour.

**FEEDING:** The method of mining or excavating will depend on the local conditions such as thickness of gold-bearing gravels, amount of overburden, quantities of large boulders, water table, topography, etc. In this study, however, the deposit is mined using a dragline which dumps directly into the feed hopper. Large boulders are rejected by a heavy 8" grizzly located on top of the feed hopper. The gravels are transported to the