

State Department of Geology and Mineral Industries

702 Woodlark Building
Portland, Oregon

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Report by: N. S. Wagner
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STATE DEPT OF GEOLOGY
UMATILLA BUILDING MATERIALS, INC.
(Concrete, Tile and brick)

Unclassified District
Umatilla County

OWNERS: Umatilla Building Materials, Inc., Box 205, Umatilla

J. M. Davies, President

J. B. Redwine, plant superintendant

GENERAL: This company is engaged in the manufacture of concrete tile and brick. Ground was broken for their plant in July 1946 and the production of tile was underway in November 1946. To date only tile has been produced.

The tile produced is a two hole unit with dimensions of 3 1/8 x 8 x 12 inches. The bricks, production of which is scheduled to begin immediately, will be standard size. Both brick red and natural concrete colors are available.

To date the tile produced has been made of stucco grade sand from the Jones-Scott Co. pit at Umatilla, but experimental units have been made using pumice from Burns. Satisfactory strength tests were obtained from the pumice tile and the company is considering making both sand and Pumice products. The sand tile weighs 12.2 lbs. The pumice tile weighs 8 1/2 lbs.

No prices have been established for brick or for pumice tile, but sand tile retails at \$115.00 / M for the red and \$105.00 / M for the natural gray.

The plant is situated in an old gravel pit on a side hill and raw aggregate is delivered to the storage bin by a chute from the top of the pit face. Mechanically measured amounts of aggregate discharge from the storage bin into a skip which sinks into a pit flush with the floor to facilitate the addition of cement. The skip delivers the raw materials to an overhead mixer of $\frac{1}{2}$ yard capacity. The mix discharge is channelled to two Brick-Mreet Machines, made by the Columbia Machine Works, Vancouver, Washington. Molding is accomplished by 6 tons of hydraulic pressure plus simultaneous vibration.

Molded products are loaded directly on large tiered racks constructed of angle iron and equipped with wheels. These are wheeled directly to the curing rooms and are not unloaded till the tile or brick is ready to be stacked in the yards.

Curing is done under 80 lbs. pressure at a temperature of 150° for a five hour period with the shed allowed to cool for an additional 12 hours. There are two curing sheds with 240 square feet of floor space each.

Plant capacity for tile is 4000 units per 8 hours using both machines. The production capacity for brick is estimated at about 8000 units per 8 hours with molds for only one machine. Eight men are employed.

Umatilla Building Mater

Umatilla County



Office buildings are currently being constructed on the flat above the plant, which site is in the city of Umatilla