

Seeley Skers

# THE COPPER ERA.

Issued Thursdays.

CLIFTON, ARIZONA, AUGUST 31, 1899.

Vol. 1: No 20

## A NEW IDEA.

### Suggestions on the Cheap Working of a Small Quartz Mine.

W. H. Willcraft, of Juniper, furnishes the following suggestions in the Journal-Miner on quartz mining. Arastras and stamp batteries can be run successfully with wind mills. Fuel is very expensive in many places, and a high velocity of wind prevails about three-fourths of the time. For large plants, twenty-five to fifty stamps, large wind mills can be erected on the hills, where they will get the full force of the wind, then either run an electric dynamo and store sufficient electricity to run the machinery when the wind does not blow, or run air compressors and have storage tanks. By this system wind mills and air compressors power can be generated and transmitted for 5 per cent of the cost of steam power, and it is better adapted to this line of industry, especially for running hoists and machine drills.

A good sixteen-foot power mill will run a two-stamp battery, 600-pound stamps, and pump the water. A good practical plant for the prospectors is a five stamp battery with stamps of 600 pounds each, amalgamating plates, battery feeder, a six-foot concentrator, a water tank, force pump and pipes of proper size. The pump can be placed in a well 500 feet distant from the mill, if desired, and a rope run from the wind mill to the pump to drive it. A twenty-foot

wind mill erected on a strong wood tower the shafting can be placed in the tower and the battery set about twelve or fifteen feet distant. Any kind of a roof or shade that will keep out the sun and rain will do. With such a mill ore can be worked by the free gold amalgamating and concentrating process at an expense not exceeding \$1 per ton. In our mining district there are thousands of tons of ore and on old abandoned claims, a large percentage of which will yield by this process from \$3 to \$9 per ton and upwards. Erect wind mills and small batteries and work these old dumps. They are nearly all free gold ore, and a concentrator will not be necessary.

What is claimed to be the largest block of marble ever quarried was recently taken out of the Marble Hill quarry, near Marietta, Ga. This block is 27 feet 2 inches long, 4 feet 4 inches thick and 4 feet 3 inches wide. It contains 500 cubic feet and weighs about 10,000 pounds. It was recently shipped from Marble Hill to Providence, R. I. It was carried on a special car, which was built for carrying large guns. The company claims that block exceeds in weight by 40,000 pounds any heretofore quarried in this country.

A contract was closed between the United Verde Copper company and a Mr. Ling, representing a Los Angeles foundry, for a \$30,000.00 water pipeline from the Verde river to Jerome.

## Of Importance to Miners.

Superintendents of government forest reserves in all the western states and territories where mining is carried on, have received the following instructions from the commissioners of the General Land Office, as to the cutting of timber on government forest reserves:

"Referring to the provisions of the Act of June 4, 1897, for the free use of timber, as regulated by paragraph 21, page 12 of rules and regulations governing forest reserves, you are advised as follows:

"Any person authorized by the said Act to secure forestry reserve timber for his own individual needs may procure it through a sawmill operator or other person acting as his agent direct; but, however procured, whether by his own hands or an agent direct, he should first confer or communicate with you directly, or through the nearest forestry officer, designating the location, amount and value of the timber proposed to be cut, the place where and the purpose for which the said timber will be used; stating what saw mill or other agent, if any, will be employed to do the cutting, removing and sawing and pledging that no more shall be cut from the reservation than he needs for use on his own land or claim, and that none shall be sold, disposed of nor used on any other than his own land or claim; and guarantee to remove and safely dispose of all tops, brush and refuse cutting, beyond danger of fire therefrom.

"The bona fide settler and miner,

