

SOON SHIP HOIST FOR DOMINION WORKINGS

May Temporarily Suspend A Shaft for Repairs on Third Level

NO SUSPENSION OF HOISTING NEEDED

New Turbines Recently Received to Be Installed in Near Future

The management of the Old Dominion mine is contemplating shutting down the A shaft temporarily, while repairs on the station at the third level are under way. A bad cave-in which has occurred above the third level station has been threatening to demolish a part of the third level and for the past month ineffectual attempts have been made to repair the defect without discontinuing hoisting through the A shaft, which is the main one of the Old Dominion mine. About two weeks ago a slight cave-in injured the shaft timbers. The shut-down of the A shaft will probably not persist over two or three days, and in the meantime the ore and waste will be hoisted up the B shaft and conveyed out through the tunnel to the bins at the surface. In the surface tunnel a bad grade must be repaired before the ore is removed in this manner.

Excavations for the new hoists which the company has purchased for installation at the A shaft are now under way near the engine house. Before the hoist is installed it will be necessary to make excavations sixty feet square and ten feet deep in solid granite. A force of men is working there now with a mauling drill and the work is being removed by a series of belt conveyors. The hoist will be shipped from the Nordberg factory June 1.

While the A shaft is temporarily closed, production will be continued under difficulties, as the ore will have to be trammed from the west side of the mine to the B shaft, a distance of about 2,600 feet. The new steam turbines which recently arrived at the Old Dominion plant have been unboxed and are ready for installation. The turbines which were furnished by the General Electric company, are of horizontal type after a late model which has been used very little in this country. The Old Dominion company plans to concentrate all its power equipment at the smelter power house except that needed to run the hoists. Consequently, the compressors have been taken out of the mine power house and installed at the smelter. The object in concentrating the power of the plant in this manner is to get as many engines as possible exhausting into the turbines. The exhaust will be two pounds gauge pressure and the turbines will run two generators.

At the concentrator a motor is being installed in place of the steam engine formerly in use. The motor will be placed above the first floor so as to drive the main power shaft horizontally and thereby diminish the length of belt and get a greater degree of efficiency.

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GIVE OUT NO NEWS

Presumed That Work on Arizona Commercial in Satisfactory Progress

Although the management of the Arizona Commercial Copper company is very reticent concerning developments and refuses to permit anyone to go underground at the mine, operations are presumably being continued according to plans recently outlined by President Nathan L. Amster at the Arizona Commercial Copper company during his recent visit to Globe.

Before leaving this city on May 3, Mr. Amster announced that the Eureka shaft, now down to the seventh level, will be sunk 300 feet further and that lateral workings on the eighth, ninth and tenth levels will be extended to thoroughly explore the ground and to develop any copper deposits which may exist below the present workings. Mr. Amster said, also, that, while the shaft sinking is under way, drifting east and west on the Black Hawk lode at the seventh level will be continued. Assistant Manager John E. Penberthy is in charge of operations.

The End of the World
Should it come tomorrow, would find fully one-third of the people suffering with rheumatism of either slight or serious nature. Nobody need suffer with rheumatism for Ballard's Snow Liniment drives away the trouble, relieves the pain instantly and leaves the user as well and supple as a two-year-old. Sold by Palace Pharmacy.

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If you are drugging I want you to stop it now. Drugs can't cure you. Instead of building up, drugs tear down, because they contain poison instead of nourishment. They lower the vitality and cause an ailment to become chronic.

The only way to cure anything is to help Nature. Drugs don't do that. Nature will cure when she has the power—electricity.

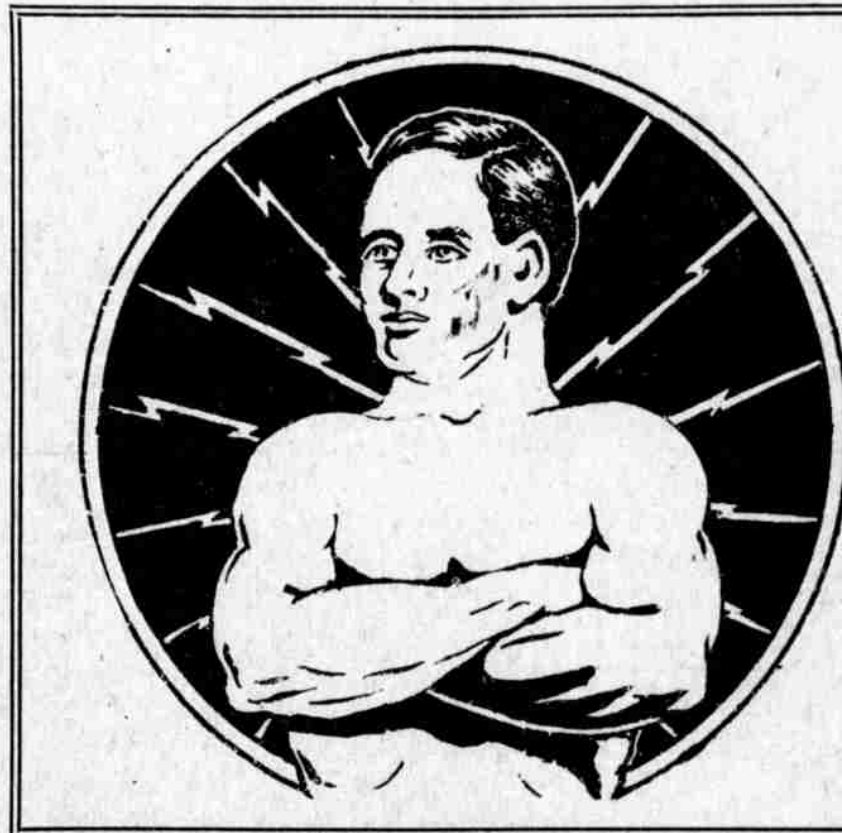
Electricity is Nature's medicine. It cures by giving strength, nourishment, to the body. It removes the cause of disease by supplying to the body the force it lacks, enabling every organ to perform its work properly, and when every organ is in a healthy condition there can be no pain or sickness.

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Ajax is an electric body battery, applied while you sleep. It infuses a stream of electric life into the body all night long. It does not shock or blister. The only sensation is a mild, soothing glow.

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NEW FORMATION IN WILLIAMS GIVES PROMISE

Thought That Crosscut May Have Reached Hanging Wall of Vein

The changes of formation encountered by the crosscut driven southeast from the Williams shaft on the 660-foot level at the property of the National Mining Exploration company are arousing much interest among people interested in the development work being carried on in the locality.

As was announced some time ago, the crosscut struck a stringer of high grade ore in the form of copper carbonate running as high as thirty-nine per cent copper. This ore was struck at a distance of fifty feet from the Williams shaft and proved to be about eighteen inches wide. Since passing through this stringer the crosscut has been driven for about thirteen feet through shale containing a great deal of iron and showing much copper stain. Within the last two or three days, the crosscut has passed out of shale into quartzite. This change is regarded as being very favorable to the future development of an ore body, as the hanging wall of the Black Hawk vein on the Arizona Commercial property adjoining is quartzite. Thus, it is possible that the formation in which the crosscut is being driven at present is the hanging wall of a copper-bearing lode. The total length of the crosscut from the Williams shaft is now about sixty-eight feet.

The ninety-horsepower boiler recently purchased by the National Mining Exploration company has been installed at the Williams shaft and is working in a satisfactory manner. Superintendent H. W. Woodward is employing about twenty-five men in development work.

ARIZONA-MICHIGAN SHOWS STAIN

Late Developments Promise Striking of Ore in the Near Future

At the Arizona Michigan property, development work is being carried on at the Blackbird and Telfair shafts.

The Blackbird shaft has been sunk to a depth of 215 feet and levels have been established at 100 feet and 200 feet respectively. On the 100-foot level, about twenty-two feet of crosscutting has been done. At a depth of 200 feet, a crosscut has been driven southeast toward the foot wall for about eight feet and crosscutting northeast toward the hanging wall has been advanced five feet. The shaft work has shown that at a depth of 200 feet the vein

grows wider and contains much iron and some copper stain, thus giving promise of the existence of copper deposits at greater depth.

At the Telfair shaft, crosscutting is being continued on the 500-foot level in the expectation of opening the Old Dominion vein, which lies about 1,100 feet south of the shaft. So far, this crosscut has been driven 815 feet. For the past few weeks, the formation encountered by this crosscut has been shale, showing occasional iron stain.

Superintendent N. A. Nelson is employing about twenty men in exploratory work.

SECOND DRILL HOLE ON LIVE OAK

Late Developments Promise Striking of Ore in the Near Future

The churn drill being used in prospecting the Live Oak property in advance of the underground drifting is now at work at its second location 400 feet west of the first one. The second hole is forty feet deep and is in the granite capping common to the Miami mining district. The first churn drill hole encountered 175 feet of chalcocite ore.

One of the notably favorable developments in the underground work at the Live Oak mine is the driving of drift No. 208 on the second level. This drift has passed eastward through forty-five feet of sulphide ore of good commercial grade. The vertical shaft, where sinking was resumed several weeks ago, has been put down 109 feet below the 300-foot level, thus showing to date a most promising vertical extent of ore.

THE CIRCUS
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WARRIOR IS SINKING THIRD HOLE

At the Warrior mine, one of the greatest permanent producers of Globe district, the sinking of the third churn drill hole is under way. This hole is already 225 feet deep and is being put down on the Winnie claim, west of the second churn drill location, and about 700 feet north of the Scorpion claim on which the Inspiration Copper company is now doing development work in a good grade of sulphide ore. On the 250 and 300-foot levels of the mine, ore is being stoped for shipment to the El Paso smelter. At present these shipments amount to from 95 to 100 tons of ore daily and the average copper content is being maintained as usual at about 9.5 per cent.

SUPERIOR & GLOBE WILL DO DRILL PROSPECT

At the property of the Superior & Globe Copper company, arrangements are being made for prospecting with diamond drills. The drilling will probably be done under contract by the Sullivan Drill company. According to present plans, one hole will be put down on the vein from the bottom of an eighty-foot wize sunk from one of the drifts on the 650-foot level. The object of this hole will be, of course, to explore the vein at depth and thus ascertain whether the absence of copper in the workings so far was merely due to the fact that leaching has taken place or that this particular vein is not copper-bearing.

So far as shown by drifting and the sinking of the wize, the vein carries a great deal of iron, much of which is rather hard. It is possible that crosscutting may be commenced shortly from the bottom of the wize, to determine the width of the vein at that depth and to explore the ground along both foot and hanging walls.

A second hole will probably be drilled horizontally from the face of the crosscut which has been driven for a distance of about 350 feet northward from the vertical shaft. The material through which this crosscut was driven for the most part was diabase, containing very little mineral, and the face of the crosscut is now in rock of this kind.

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LOST GULCH WILL SINK DEEPER

President Harrington Goes to Property with Necessary Supplies

President J. T. Harrington of the Lost Gulch United Mines left Globe for the property Thursday, taking with him supplies and tools necessary for continuing development work of the group of gold claims which the company owns. The management of the Lost Gulch United Mines has decided to sink the Badger shaft to greater depth. At present this shaft is 130 feet deep and about 100 feet of sinking will probably be done, thus making the shaft 230 feet deep. The developments at this

part of the property will explore, to greater depth, the Bonanza lode, in which good gold values have been found near the surface.

Steps are now being taken to develop a greater water supply for the ten-stamp mill, which has been treating the Lost Gulch ore. As soon as the amount of water available is increased, the mill will probably resume running and, as in the past, will be supplied with about forty tons of ore daily from the comparatively shallow workings in the immediate vicinity of the mill. The ore from this property averages \$25 to the ton in gold.

COPPER REEF WILL RECEIVE HOISTS

Two Vertical Shafts and a Tunnel in Program of Development

Two forty-horsepower hoists for use on the property of the Copper Reef Consolidated Mines have just been shipped from the factory and will soon be installed on the company's property, where two vertical shafts will be sunk for development purposes. These shafts will be about 1,200 feet apart and to connect with one of them a tunnel will be driven. The driving of the tunnel will be accomplished by contract work and the management has already announced that bids will be received for 100 feet of driving.

General Manager S. W. Clawson arrived in Globe several days ago for the purpose of attending to business affairs in connection with the company's interests.

The development of the Copper Reef property will be watched with great interest, as its holdings, consisting of eighty claims, comprise, probably, the greatest area of mineral land in one body held by any mining company in Arizona. As the surface showings of this property are exceptionally favorable, there is great likelihood that a mine of remarkable value will be developed in the course of the next year or two, thus adding one more producer to the list of paying mines already operating within a radius of thirty miles of Globe.

LITTLE MIAMI WILL ENLARGE FORCE

The management of the Little Miami Mines company is making preparations to begin operations on its property lying between the lands of the Miami Copper company and the Warrior Development company. A twenty-five-horsepower hoist is about to be installed and as soon as the equipment is complete, the sinking of one of the old shafts to greater depth will be commenced. This shaft is now 110 feet deep and has only one compartment, but workmen are now engaged in enlarging it to two compartments.

The location of the shaft is on the Wild Air claim on the west end of the company's property consisting of three

CACTUS CROSSCUTS TO OLD PINTO SHAFT

Drifts from Hamilton Shaft in Ore Running 3 and 4 Per Cent

On the 300-foot level of the Hamilton shaft of the Cactus mine, crosscutting from the main west drift has just effected a connection with the Pinto shaft. As about 180 feet of water had accumulated in the Pinto shaft, great care had to be used to avoid injury to employes in making the connection.

At the 400-foot level, the west drift will be connected with the Pinto drift in a few weeks. The water will be pumped out through the Hamilton shaft. The drift at the 300-foot level has passed through the main fault into barren ground on the Pinto property, but that on the fourth level is continuously in ore within the Pinto line.

The sub-level fifty feet above the third level and running north from the raise located 200 feet north of the Hamilton shaft and a short distance west of it is 150 feet long and continues in the malachite vein. At a point fifty feet north of the raise a crosscut is being driven eastward and twenty-five feet farther north a west crosscut is being started on the sub-level.

Eastward from the Hamilton shaft drifts are being driven on the third and fourth levels. The former is 530 feet long while the latter has been advanced 600 feet. At these distances from the shaft the ore assays three per cent copper at the third level and four per cent at the fourth level. The ore is sulphide as in the greater part of the mine workings.

No definite plan of procedure from the Pinto shaft has yet been made, but it is likely that development work will continue from this shaft as from the Hamilton. The fourth level of the Hamilton will intersect the Pinto shaft at a depth of 540 feet, at which depth the latter shaft was bottomed after passing through ten feet of carbonate ore assaying fifteen per cent copper.

Tools for the churn drill are expected to arrive in Globe at any time, but meanwhile the drill work is being delayed. W. H. Hamilton is in charge of operations.

claims aggregating about sixty acres of mineral land on which schist conditions very similar to those showing on the surface of the Miami property are in evidence. General Manager Richard Fleming will soon increase his working force materially for the purpose of hastening the exploration of the property as much as possible. For the present, Mr. Fleming will make his headquarters in Globe, but as soon as buildings can be erected, the mine offices will be established on the property.

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