

PRESCOTT IS GAINING IN MINING BOOM

(Continued From Page One.)
 cious ore, the production of the United Verde mine, is 5,000,000 pounds. Within a short time the smelter output will be increased to 8,000,000 pounds per month. This will be furnished, but practically all of the ore production of the United Verde mine. The crushing and screening plant which is being constructed at the mouth of the tunnel connecting with the mine on the 1000-foot level, is practically completed. Primarily, its purpose is to supply 1000 tons of "fines" daily for the reverberatory furnaces, but practically all the ore mined will pass through the crushers. The United Verde Company employs 1800 men.

Copper Basin Activity.

Most of the silicious ore used at the Clarkdale smelter for fluxing purposes comes from the Commercial mine, located in Copper Basin about 10 miles from Prescott. Mining in Copper Basin is being prosecuted under mineral conditions which indicate the opening in the course of large bodies of copper ore throughout an extended area. In fact, it is probable a camp will ultimately be established in the Basin of similar importance to Jerome, the latter being the center of copper mining activity in Yavapai county. The Commercial mine is outputting about 100 tons of copper oxide daily and is soon to be opened at a depth of 400 feet, where a body of sulphide ore was recently encountered at a point near the side line of the Rob Roy claim of the Loma Prieta Mines Company. The Loma Prieta shaft has a depth of 150 feet at this writing and is in a solid body of chalcocite ore from the 85-foot point down. This is to say it is in ore for a depth of 45 feet.

Mills Grind Steadily.

Activity in the copper-carrying areas of Yavapai county has a counterpart in the gold, silver, tungsten and lead branches of the local mining industry. The mills in the Crown King country are grinding steadily on the silver-gold ores mined in the Bradshaw mountains and vicinity; the mills of the Jerome district are similarly employed on the ores of that section; along the Hasayampa the stamps are dropping continuously on ores mined in the vicinity of that auriferous stream. Down in the Tiptop country the mill of the Tiptop Consolidated Company is turning out high-grade tungsten and silver concentrates; over at Humboldt the smelter is working at capacity on ores mined in all portions of the county. Old mills in all sections are being overhauled and revamped preparatory to a resumption of activity.

Animation at Mines.

A trip to the mines over Yavapai's splendid roads discloses a scene of general mining activity. Probably the most animated in the annals of the local mining industry, the tungsten mines of the Camp Wood and Tule sections are increasing their output and working forces. The United Verde Company is preparing to add 500 men to its corps of miners. The "Little Daisy" management will soon add appreciably to the number of men on the job. The Venture Hill Company will within a few days resume operations with three shifts of miners. The Verde Apex Company is preparing to resume development work. The Jerome Victor Extension Company is cleaning up its mine with a nominal force and will soon have a full crew at work below ground. The Green Monster company is preparing to augment its corps of miners and to engage in deep mining on an extended scale. The Boston & Jerome Copper Company is shaping its plans for the resumption of work.

General Activity.

The Henrietta and Butternut mines are being worked with increased crews. The Great Southern Company will shortly add to its force of min-

ers. The Schuber Copper Company is preparing for extended mining operations. The Commercial company will soon increase the scope of its development work. The Loma Prieta company will put on additional miners as soon as the present shaft sinking contract is completed. Additions are to be made at once to the mine and mill crews at the Cash property. The Blue Bell mine is employing a many miners as can work to advantage. The Golden Drago Mining & Milling Company will resume operations the current month with three shifts of miners. The Big Pine Company is working a man wherever available. The Tusconia company is preparing to open the high-grade silver-gold-copper ore shoot recently discovered. Ed Block one of the best-known mining men in this section, is working all of his numerous mining properties.

Placers Are Active.

Most of the mines along the Hasayampa river are again being worked and are making good. The placers of that section and along Lynx creek are also yielding generously under the impetus of modern appliances and adequate working forces. Additions are at once to be made to the working force at the Tiptop mine. Many of the other mines of that section have resumed or are preparing to resume operations. The Oro Belle, Fairview-War Eagle, Gladiator, Crown King, Tiger Silver, Tiger Gold, Nelson Lincoln, Spring Green and other properties in the Bradshaw Mountains have increased their force of miners. Many other properties are likewise being worked, but those mentioned will serve to illustrate the increasing scope of Yavapai county's mining industry and the prosperous days upon which it has entered.

GILMAN CUT AND FILL WORKS WONDERS

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 keep the job away from the ore, thus facilitating mining the next section without mixing with waste. After the slides are ready, a second cut is taken off the back. Work is started above the bottom of the slides on both sides of the raise, and a 10-foot cut is carried upward to the raise, parallel to the slide, across the whole width of the section. All the ore is not removed as soon as the slides and hence a little tends to accumulate on the slide, which gives the miners a footing while breaking the ground higher up. The ore is then all withdrawn, and the floor, together with the silts, is taken up preparatory to the second fill. Waste is introduced as before, forming a cone reaching to the highest part of the section. This pile is made into two flat inclined surfaces on which 2x10-inch sills and a 2-inch floor are laid, as before. Enough room is always left between the waste and back of stope to permit this floor being laid. This section is now ready for a third cut.

When the waste cone extends to the back of the ore, a second raise is necessary to fill the stope. In case another raise is not already there, a subraise is run from the back of the stope, about 50 feet horizontally from the first one, to the level above. This raise is then the center of cut-and-fill operations. In mining a long section, several raises in succession are the center of cut-and-fill operations. Where the ground will permit, cuts may be taken off to raise simultaneously. As the lower ends of the slides get above the stringer floor, cribbed chutes of 4x10-inch lagging are carried up through the job to the bottom of the inclined slides. A grizzly consisting of two 8x8-inch timbers is usually placed over the top of the chute to prevent extra large boulders from rolling into it.

In this manner a whole section is mined by taking out 10 feet inclined cuts and filling with waste, until the back of the ore body is reached. Stulls with headboards, or a bulkhead if necessary, can be thrown against the back to catch up any bad slabs.

HUACHUCAS BOOMING AS RESULT OF MINES

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 claims in fact groups both of which show shipping values in copper and lead. On the west side of the mountains close to the Santa Cruz line there are several parties at work on copper claims and on some new finds of tungsten bearing ore. The Huachucas at the present time present a much greater future in the mining field than they have for a number of years.

Work is progressing on the property of the Two Peaks Company. A new strike has been opened up on the San Jose claim which promises to be one of the richest that has yet been encountered on the property of the company. It was found near the top of one of the peaks on a claim that was recently located by Tom Larrien. Work on the Buck and Bootjack claims still continues and the tunnel on the Buck still continues to show low values in sulphides. The shaft on the black Jack is in ore which carried good values in lead and silver. President Harrison of the company who has been in the east for the past few weeks is expected to return the coming week and will bring with him a party of prominent Joplin, Mo., mining men who are to make an examination of the property with a view of taking an option on a considerable block of the stock.

South of the property of the Two Peaks company, Tom Larrien and Ramon Esquedero are at work on two claims on which they have opened up a small body of lead and silver ore that also carries small values in copper. They have an excellent looking prospect at the present time.

A number of other parties are at work in the locality and are meeting with excellent encouragement. Parties have been out during the past week making an examination of the Mascot property of Sime Gallen and M. Newman. This property is one of the best developed ones in this section of the country and there is but little doubt but what it will be taken over by some one. There is plenty of ore in sight and several car loads of ore have been taken from the property and shipped to the Douglas smelters. El Paso people who had an option on the property may make an effort to secure another option.

On the west side of the mountains a number of prospectors have been looking for tungsten in the decomposed granite and several small deposits have been uncovered. At the tungsten camp of the American company a few men are still at work and it is the intention of the company to add to the force in the near future. The Gordon claims at this place have been visited by eastern parties during the past week with a view of taking an option on them. These were a part of the original group that were owned by Gordon but were not taken in by the American company when they purchased from him.

On the San Pedro.

On the San Pedro below Benson there is considerable activity. During the past week Charles Jones of Bisbee was in the Little Rincons making an examination of the property of Ed Land and others with a view of forming a company to develop the property. Archie Chisholm and Charles Clark are at work about fifteen miles below Benson developing a copper property on which they have opened up a small body of ore. Several parties were in the same locality during the past week making an examination of the old Ho Wo property on which several bodies of copper ore has recently been uncovered. W. H. Sheehan and Archie Chisholm have during the past week closed a deal with George McDaniels whereby the latter takes over a group of claims near the Mascot group in the Rincons and on which work will start very shortly. Mr. McDaniels has also purchased several claims from the Mascot group and on which he will also do some extensive development work.

In the Johnson-Dragoon District.

George Etz and Fred Webb have just completed the installation of a 2-ton mill in the vicinity of the Little Dragons that will be used in the handling of custom ores in that locality. A concentrator is soon to be added. This mill will provide a market for a number of the smaller mines in that locality.

A ass walker and others have sold a group of tungsten bearing quartz to Allen G. White for the sum of \$15,000. The group consists of two claims and is in the vicinity of Texas canyon. The new owner already has a small force of men at work on the property and intends to increase the number.

A. J. Pidgeon has sold one claim in the Johnson District to James Lourens for the sum of \$300. The claim lies in the copper belt and there is a good showing on the property. Mr. Lourens has been in the Johnson district for sometime and will do some development work on his new claim.

The work of installing the new machinery on the Centurian property about two miles north of Dragons is progressing rapidly and it is expected that the hoist will be ready to be tested during the coming week. Mr. Richardson the president of the company has recently returned from a trip to Los Angeles where he succeeded in placing a large block of the stock of the company. He expects to begin regular shipments to the El Paso smelters within the next thirty days.

The Cobriz Mines company, which is operating the Old Republic property at Johnson, has just completed an extension of the railroad to its property and has erected large ore bins so that the ore is now dumped directly from the shaft into the bins and thence into the cars for shipment to the El Paso smelters. The company has been averaging about three cars a day of sulphide since the road was completed. The Arizona-Michigan company has

Method of Handling Gob.

As the ore is removed up to the waste and the gob will no longer run in to fill the open spaces between the top of the pile and the back, it is shoveled in by hand until it is snug against the back, for which it provides a substantial support. In special cases, where it is impracticable to use gob, bulkheads made of old timber are placed between the top of the gob and the back.

In mining a large ore body, alternate sections are usually taken out and afterward the section between is mined. Sometimes sections are worked progressing across the ore body, starting at one end and working toward the other. The sections vary in length up to 200 feet. Where they would be much longer than this, mining is carried on at both ends, as if they were two separate sections, the pillar between being subsequently removed.

The ore is drawn direct from the chutes into 30-cubic-foot cars and hence taken by electric motor to the station pocket. Skips are used to hoist the ore. The even-numbered levels (1400-1600) are the main haulage levels and have electric motor haulage, while the odd levels are more the prospecting levels and have only mule haulage. The gob used to fill the stopes consists of limestone, broken in development work.

The Gilman cut-and-fill system is a very cheap method and affords a degree of security that the old shrinkage stope and glory-hole methods of mining lacked. The back of the stope is always within reach of the miner, where he can bar down loose ground or throw up a stull against the back if necessary. As the ore is taken out a successive cuts, the back does not have time to slack or become shabby. This method can be used on almost any shape of deposit. Besides being safe, this method can be used on almost any shape of deposit. Besides being safe, this method can be used on almost any shape of deposit.

SALOME IS CENTER OF GREAT INTEREST

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 who is now in charge. Mr. Hall is a pioneer of this section. He discovered the limestone belt and iron-capped ledges of the Tank Pass section and built the first subraise of a trail through the pass ten years ago. He is also interested in the Black Bonanza, Black Bear, Daisy May and Black Dike groups.

One carload of ore shipped from the mine owned by Sidney P. Osborn and James Burson, in Cunningham pass north of Wenden, to the Selby smelter at San Francisco, netted more than \$3700. The ore averaged 9.77 per cent copper and \$17.50 a ton in gold.

Globe parties have become interested with Osborn and Burson and a corporation will be formed this week to develop the property. A hoist, compressor and pump will be installed and the main shaft, now down 54 feet sunk to depth. The ore is over two feet wide in a 10-foot drift west from the bottom of the shaft, so it is expected that regular shipments can be made.

A carload of ore is shortly to be shipped from the Vindicator mine, a short distance east of the Osborn and Burson claims. Arrangements had been made to ship it to Humboldt but the sampling mill burned down there so the ore will probably be marketed in the southern part of the state.

The Black Reef Copper Company, which owns a group of promising claims south of Cunningham Pass, adjoining the Desert property, has purchased a 12-horsepower hoist which will soon be on the ground. This equipment is to be used in sinking the main shaft, which is now down 129 feet in ore that runs 43 to 42 in gold and 2.6 to 2.5 per cent copper. On the surface this ledge is only two feet wide but it increases in width rapidly and at 100 feet is six feet from wall to wall. This shaft has the only water that has been struck in that immediate vicinity. It makes about 25 barrels of good water every 24 hours.

Sulphide ore has been struck at a depth of 250 feet in the No. 1 shaft of the Desert. A hoist and compressor are being installed at the main shaft, some distance east, which is down only 60 feet. Several carloads of good gold-copper ore have been shipped from the Desert, which is owned by a Jerome company. The ore is freighted to Wenden by motor truck.

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the hoist, boiler and other machinery, that was recently purchased from M. F. Dicus in Douglas. The machinery was formerly used at the Bisbee Extension property about half way between Bisbee and Tombstone and was nearly new as it was used a short time at that property and since then has been thoroughly overhauled by M. F. Dicus. The machinery was secured by Mr. Dicus through a judgment that he has on the property. The addition of the machinery will now give the company sufficient machinery to do to a good depth.

James Barrett is doing some extensive development work on his claims near Dragons Station and has taken out considerable copper oxides and expects soon to make a shipment to the smelters at El Paso.

Sinking still continues on the property of the Middle Pass Mines Company in Middle Pass and as depth is obtained the ledge widens and several tons of lead and zinc ore have been taken out. There are some samples of the ore now on exhibit at the office of L. J. Overlock and Company which have attracted considerable attention. The company is composed of Bisbee parties.

Parties were out recently to make an examination of the old property of Kendall Brothers located near the Old Stockton ranch, about two miles south of South Pass in the Dragons. There is an excellent showing on the property and some assays show values of free gold as high as \$75 while others do not run as high. The property promises to become one of the few gold producers in Cochise County. If the property were located in the Gattano district at the present time it could be turned at a good figure.

Gleason and Courtland.

The most important news of this section for the past week is the report of Gleason under the direction of Superintendent L. I. Thiers. The present owner, Captain J. H. McKiltriek, has here recently and went over the property with Mr. Thiers and he then gave orders to begin operations. A force of about twenty men are now at work and shipments have already commenced to the smelters at Douglas. Several of the old dumps are being shipped. These could not be worked before on account of their low grade but at the present price of copper they can be handled at a profit. Other shipments of lead ore will be made soon to the smelters at El Paso. At one time the ore was hauled from Gleason to Cochise for shipment to the smelter at Silver City, New Mexico.

Throughout the workings of the Leadville property at Courtland, now under bond to the Needles Mining and Smelting Company, the work under supervision of Fred A. Earls is being vigorously pushed. The contract for the sinking of the Maid of Sunshine shaft, 150 feet has been let to Tom Fraser of Tucson, but formerly of Bisbee, and three shifts are now at work. The compressor has been in operation for several days and is now furnishing air for the drills. Sampling of the No. 1 level of the Maid of Sunshine shaft has been completed and the samplers are now at work in other parts of the property. At the No. 2 shaft the re-shafting has been completed and the work of pumping it out started. As soon as the shaft has been unwatered a contract will be let for the driving of a cross cut to the No. 1 shaft. The Leadville Company has recently received from the U. S. Government patents to the Clifton, Fraeclon and King Solomon claims of that group.

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