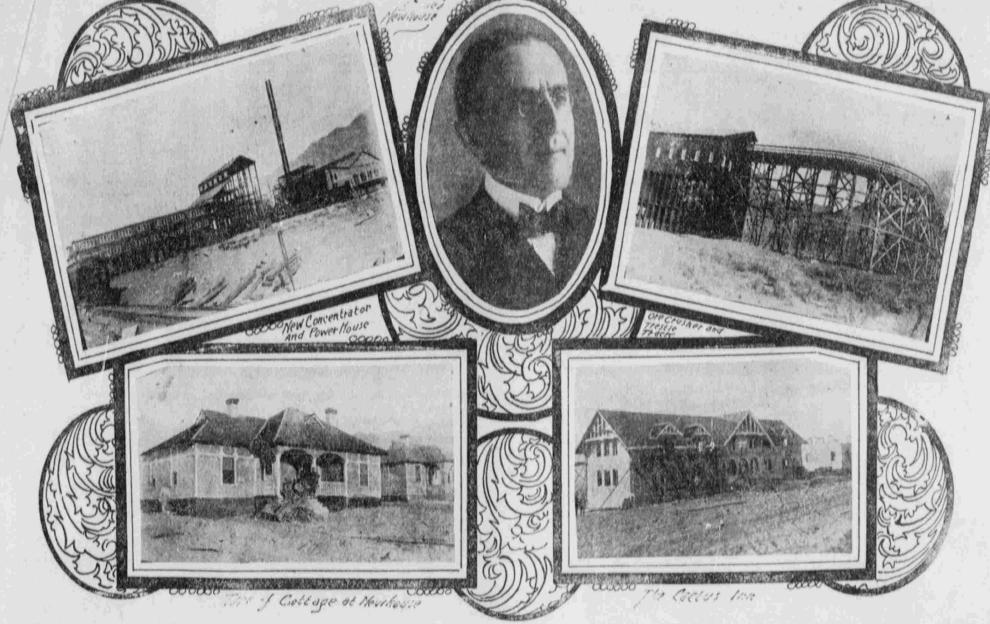
NEWHOUSE AND MAJESTIC COPPER MINES READY FOR MIGHTY OUTPUT

ULMINATING forces have been at work in Beaver county this year. If anyone doubts this, a visit to Milford, Frisco, or the new camp of Newhouse, now being reared along the foot hills of the San Francisco range of mountains above the Wah Wah desert, will remove all such doubts. Indeed, vast changes are taking place in this southern mining reglon and the day is not far distant when its mines will be contributing extensively towards supplying the world with copper

For a good many years Beaver county has been looked upon as a future copper camp of importance and a complete realization of this is about to take place. It is quite generally conceded. that the "copper belt of Beaver county" will rank second to Bingham in the production of the bronze metal within a very short time, and, with development, it seems likely to equal, if it does not excel, the camp made famous by its Utah Consolidated, Bingham Consolidated, Boston Consolidated and United States mines,

Although Beaver county has been recorded with the honor of being the scene of the first discovery in U(ah of metal mines, the development of its mineral districts has been slow as compared to others in this state. It is true the region prospered in the haleyon days of silver, during which times the rich surface ore deposits yielded handsomely. The Horn Silver at Frisco was discovered back in those days, and strange as it may seem, was the only property in the whole county that was developed to any great depth until recently. It was common talk at one time that the Horn Silver contained about all the ore worth mining down that way and while it was paying dividends, the balance of the mining districts of the county remained dormant for many years.

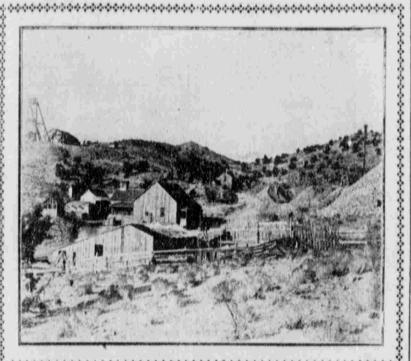
About five years ago mining men began to investigate. Eastern capital began to come in, so inviting did the field look to them. In this, A. B. Lewis played an important part, and it would be unfair to him not to recognize the fact that it was through his efforts that a good many thousand dollars were turned this way for development purposes, although much of it was injudiclously spent, after the organization



Consolidated and Boston Consolidated at Bingham.

HAS SPENT OVER \$2,000,000.

Events of the year now drawing to an end indicate very clearly that Mr. Newhouse still maintains this opinion: Newhouse still maintains this opinion; for the Newhouse Mines & Smelters corporation, which was organized with the Cactus properties for a basis, has already spent over \$2,000,000 in the development of the mine and in providing it with equipment, and when this work of presentation is fluished. Mr. of the Majestic Copper Mining & Smelt- work of preparation is finished, Mr.



THE OLD HICKORY COPPER MINE.

ing company of which he was the orig- | Newhouse will have reason to fee inator. Senator Lewis held the Cactus mine at one time under an option from the French syndicate which owned it, but unable to execute the terms of the document, he was forced to relinquish it; the property, thereupon, passed to Samuel Newhouse, and the result of his endeavors is in evidence both at the mine and at the town of Newhouse. which is being built into a model mining camp, the like of which can scarcely be duplicated anywhere in the mining world. There are several great mining enterprises being rounded out in Beaver county at the present time. Therefore, this year's labors will culminate in adding new producers and new dividend payers to contribute their influences towards making Utah the greatest of the grand galaxy of mining states.

By the first of February, or very soon after that date, the Newhouse mines will be ready to market concentrates; the Majestic Copper will also blow-in the furnaces at its smelter soon, and when this event occurs the plant will be started on a run to last indefinitely. so marvelous has been the result of the Campaign of development. The organization of the Frisco Mining company, a few months ago, marked the beginning of another important project, although the general public has had little cognizance of the merits of this proposition. The significance of this undertaking lies in the fact that demonstration has proven that the Horn Silver vein, aithough faulted in numerous places, continues quite regularly both in northerly and southerly directions. The Frisco company has secured patents to a large group of claims and early next year will install powerful hoisting machinery, preparatory to developing its ground, which is likely to assume the proportions of its well known neighbor adjoining.' On the south side, the Lulu Mining company is opening up an extension of the Horn Silver vein. This company will also add new facilities during the coming year. The Skylark, Beaver-Harrison, Blue Acre and other mining companies, are conducting energetic campaigns with every reason to believe that their labors are going to prove entirely successful,

Spent \$2,000,000 To Get Many More

HEN Samuel Newhouse purchased the Cactus mine, located in Copper guich, Beaver county, he made the statement to some friends that he had found It had been and is still linked with eming the place will be rigidly en gravity into a coment reservoir capable

proud of what has been accomplished.
A mine, thoroughly developed, with millions of tons of ore blocked out ready to be sent to the reduction works; a concentrating mill, of large proportions, equipped with every modern device which will tend to reduce the cost of treatment to a minimum and a town, indeed—a city, built of substantial modern homes, with all the conveniences to be had in a metropolis These are among the things brought about in Beaver county through the efforts and untiring energy of one who has been justly styled "The Father of Copper Mining in Utah."

NEW TOWN OF NEWHOUSE. The new town of Newhouse, now in

the course of construction, is so unlike the average mining camp, one can hardly realize that it is in reality-a mining camp. Conspicuously absent are the cheap temporary buildings, or, more appropriately speaking. "the shacks" which usually predominate in mining towns. In striking contract to this, one sees on every hand buildings going up that would be a credit to any city. Mr. Newhouse believes in providing comfortable homes for the employes of the company and with that purpose n view numerous cottages have built, some are under construction, while others will be provided as occasion demands it. The structures are uniform in appearance and contain, in most cases three, four, five and six rooms. Each one is modern, being provided with water and electric lights, bath room, etc. A reasonable rental is charged and no one could have any good reason to complain about the price fixed. The four room houses go at \$10 a month, the five room at \$15, and the others in proportion. They are con-structed of wood frame and the outside is plastered with cement, claimed to be even more substantial and lasting than brick,

Everything in the town of Newhouse has an air of permanency about it and this is strikingly demonstrated in the new bunk and boarding houses shown in the acompanying illus-tration. These buildings stand upon cement foundations, as is the case with all others in the town, but unlike the dwellings, are built of brick and the exterior walls are ornamented with cothe sleeping quarters for the unmarried men, or those who are married and do not have their families with them. The bunk house will accommodate 150 per-sons and the diningroom at the boarding house will comfortably seat 100.

NO PLACE FOR SALOONS. One commendable feature about the town of Newhouse is the absence of saloons and houses of ill repute. It is the prenounced policy of the manage-ment that no moral degrading institutions of this character shall exist in the territory over which it has control. If such institutions do run it will be "over the dead line." One energetic liquor dealer has taken advantage of and has established a saloon

CLUB HOUSE FOR EMPLOYES. It is the intention of the company, a copper proposition that would excel its employes. A liquid dispensary will anything with which his name had ever been associated, notwithstanding it had be run in connection, as is the case in all well regulated clubs, but no rowdy-ism will be tolerated and the rules gov-

about a mile from the main part of

and the officers and the men under them will have a common meeting point, where they may come in contact and become better acquainted. A gymna-sium, bowling alley, billiard and pool tables, etc., will make up a part of the club's equipment.

SCHOOLS AND CHURCHES.

A hotel for the accommodation of transients will be built early next year and just as soon as possible public schools and churches will be established. The government of the town will be an ideal one; in fact, it will be a model mining camp in truth. It is doubtful if another could be found anyfrom which all strests radiate. Sur-rounding it will be beautiful dwellings, the hotel to be built next year, the club house, and near by will be erected the station house of the San Pedro, Los Angeles & Salt Lake railroad, especially designed for Mr. Newhouse.

25 years ago, and was coul with a mill for concentration and also with a smelter of crude design. Both plants were operated, but not with very much success. The result was, activity ceased in Copper Guich and the mine because practically idle, remain-ing so until Mr. Newhouse secured an option on it. But before executing it, a large amount of money was spent in the development of the ore bodies and in the conduct of a series of metallurgical experiments. The development of the mine was left to Morris M. Johnson, recognized by many as being one of the most competent mining en-

point the mill is to be supplied gersol-Sergeant Corliss company air through a 10-inch and the townsite compressor having a capacity of 2,500 through an 8-inch pipe.

through an 8-inch pipe.

The mine, which is a little less than three miles from the townsite, is developed to the depth of 600 feet, and in the workings the Cactus vein is disclosed to a width of from 100 to 115 feet and caries average copper values ranging anywhere from 4 to 7 per cent. There are streaks of very high grade ore, but the bulk of the vein carries are of a milling grade only. It is estimated that there are 4,000,000 tons and over blocked out at the present and over blocked out at the present

The mine will be connected through doubtful if another could be found any-where in the world to compare with this one, only recently established in Beaver county. In a little time lawns this one, only recently established in this one, only recently established in guaged railroad, about three miles in guaged railroad, about three miles in guaged railroad, about three miles in length, to the reduction works. The adit is nearing completion, and it is expected connections will be made because to the desert. A large plaza, or fore Christmas day. In this tunnel several fissures of ore have been encountered, and they will receive attention later. A large amount of work tended to the new town during the has been dong at various points in the year, the length of the new line being ore bodies in the main part of the mine, to more fully develop them and more particularly to prepare the several stopes for the mining of a large tonsomething about the town. Now which the growing village owes its existence. The property fell into the hands of a French syndicate somethine.

ROOM FOR 200 MINERS.

The present workings of the Cactus make good room for over 200 miners to work at one time in the extraction of ore, which will be brought through the tunnels in ore trains propelled by two electric locomotives. ORE CRUSHING DEPARTMENT.

At the mouth of the tunnel the

crushing plant and ore bins, with ca-pacity for from 1,500 to 2,000 tons are located. By means of an automatic ready for commission about February located. By means of an automatic ready for commission about February dumper, the loaded ore cars will be un- 1 next. Provision has been made for loaded almost in an instant, when they the enlargement of the plant and it is

Assay office and machine shops are complete in all of their appointments, built of brick with cement foundations.

The stack at the power plant is eight in diameter, 160 feet high stands at an elevation above the sea level of 6,100 feet.

EXCAVATIONS MADE IN MAY. The excavations for the first building at Newhouse were made on May 20 last, by Contractor Joseph Dederich. The Frisco branch of the San Pedro, Los

touches are now being put onto the gigantic copper mining enterprise.

MARVELOUS PROGRESS MADE.

Notwithstanding many annoying delays were experienced in getting material and machinery here on time, marvelous progress has been made in marvelous progress has been made in the shaping of the Cactus for steady production. The work will be practi-cally complete within the next six weeks and it is expected that the first

ly instrumental in the successful launching of three of the largest pro-ducing mines in the state. His name will go down in history as belonging to one of the greatest copper miners of the

Majestic's Great Blocks of Wealth.

Copper Mining & Smelting com. pany, consisting of the O. K., Old Hickory, Harrington-Hickory, Vicksburg, Southern States, Hoosier Boy, Larkspur, Copperfield and Treasure groups are situated in Beaver county, Utah. In all, the company owns 120 claims, a smelter site with 640 acres of land adjoining, and the Tadpole Springs covering 160 acres, affording sufficient water for any concentrating processes which might be in-

These properties are all within a radius of nine miles from Milford, situated on the main line of the San Pedro, Los Angeles & Salt Lake railroad, 221 miles from Salt Lake City. The Old Hickory has a spur from the Erises by north of the main line running. year, the length of the new line being seven and a half miles. The operation of the new road began on Sept. 2, since which date the new camp has enjoyed regular train service. The forwarding of material to camp did not commence in 'the railroad went into operation, bit since that time no less than 400 car loads of material and machinery have been receipted for and the finishing touches are now being put onto the ossible to lay the ore down at a cost

not exceeding 30 cents a ton. These properties are wonderfully well equipped, having absolutely everything which will be needed for years to come, and supplies on hand, such as timber and tools, to supply the company's needs for a period of many months. There are four 34 h, p. Fairbanks, Morse & Co. gasoline hoists, and two smaller ones, one steam hoist, two com-plete electric equipments, ore bins ore bins lacksmith and carpenter shops, boarding houses, and in fact everything to be desired, all of the very best types and in perfect condition, so that nothing will have to be expended on surface improvements.

SMELTER A MODERN ONE.

The smelter is of the newest and most sories, such as an assay office, buildings for men, a storeroom well stocked affording ample supply for steam and

port made on the properties of the Ma-jestic Copper Mining & Smelling company, submitted by Louis S. Cates, now superintendent of the Boston Consolidated mine at Bingham, who recently conducted an examination of them. as been no exaggeration; not,

GREAT O. K. MINE. This fact is strikingly evident in the

such recognized bonanzas as the Utah | forced. Everything will be kept orderly | of holding 300,000 gallons. From this | mension, in which is contained one In- achieved the distinction of being chief-

HE properties of the Majestic

trating processes which might be in-stalled in the future,

modern construction, situated one and one-quarter miles south of Milford, on the main railroad line. It includes a copper matting furnace of 250 tans' daily capacity, and a silver lead furnace of 100 tons' capacity, together with a complete sampling mill. The acceswith smelter supplies, are all included in the equipment, and the furnaces could be blown in at 48 hours' notice. There are four artesian wells near the smelter smelter uses. The fact that the smelter is centrally located in reference to the mines and its railroad connections, give it a most commanding location.

The foregoing was taken from a re-

It was the privilege of a representa-tive of the "News" to visit the Old Hickory and O. K. mines of the company during the present month, and it is the firm conviction of the writer that not half has been told about Majestic. In the east and elsewhere some very plendld things have been said about this company's Beaver county properties; they have been pictured in quite glowing terms, yet it is a creditable thing to note that in it all, there way, by the present management. If any shareholder has any reason to question the assertion, it would do him a lot of good to personally visit the mines and subject himself to a few surprises-for some are there.

O. K. mine, as well as in the Old Hick-ory and the Harrington-Hickory which have been undergoing systematic development for several months past under the direction of Ed. F. Freuden-thal the synchronyday. thal, the superintendent.

TREMENDOUS ORE BODIES.

But In the O. K. mine some tre-mendously large bodies of copper ore have been opened, and the present showing on the underground safely places that property in the category of Utah's greatest mines. While the O. K. contains considerable high grade ore, the great bulk of it is of a character most susceptible to treatment by concentration before smelting. That a mili of large capacity will be provided during the coming year is very

DEVELOPMENTS ASTONISHING.

On all the levels, developments ar-

most of an astonishing nature have been made during the past few months, and new ore reserves are being opened constantly, as each day's work progresses. While it is difficult to estimater the tonnage blocked out, 1,000,000 tons is considered to be ultra-conservative. The property has been opened by two shafts, one an incline sunk to the 400 level, and another perpendicular to the same depth. It is the intention to improve the incline by sinking it an additional 100 feet and making it double compartment. Water has been encountered in the winzes sunk below the 400, indicating that the water level has been reached and that the desired change in the character of the ore is about to take place. A new steam holst will probably be installed during the next year.

O. K. GEOLOGICAL CONDITIONS.

The geological conditions of the O. are sized up by Mr. Cates in the fellowing:

'On the rurface a strong, well defined "On the rurface a strong, well defined east and west cropping stands out, being 60 feet wide at the point where the preline shaft was sunk, widening to 200 feet opposite the main shaft. This cropping shows heavy copper carbonate stains and even sulphides scattered throughout. The vein is prominent in its croppings for 1,600 feet along its course, showing the same mineralization, and dips 60 degrees to the north. The walls are both of a compact gran-The walls are both of a compact gran-ite and in the vicinity of the vein are mineralized with finely disseminated sulphides, not being of commercial value, but simply showing evidences of strong mineralization. Intersecting this main vein are four cross fissures running north and south. At the intersections of two of these cross fissures with the main vein, large "shoots" of ore have been encountered and, as these were the smallest, I have ever reason to believe that when the two westerly and stronger veins are en-countered, larger "shoots" will be opened up. The ore is siliceous, carrying the values in carbonates and oxides in the upper workings, changing to the sulphides of chalcopyrites and bornite with depth as the water level is approached."

OLD HICKORY MINE.

What the Old Hickory mine will develop into can only be conjectured, but that it will grow into great proportions there is not the slightest room for doubt, unless all the rules ofgeology are completely upset. The Old Hickory contains some immense copper crop-pings; the ore is heavily impregnated with iron and is ideal for fluxing purposes; the veins are large and, with depth, no doubt some very rich ore

will be encountered.
The main shaft is down to what is known as the fourth level; this shaft is now being sunk 100 feet deeper and Nu-merous winzes are being sunk in ore. One is being sunk from the fourth level and will reach the 500 simultaneous with the shaft, when connections between the two will be made.

AN IMPORTANT DRIFT.

An important work is the driving of a drift on the first level and which is intended to cut a cross fissure some distance south of the shaft where the vein shows a width on the surface of 50 feet. On the third level a drift is also being run to get under the same ore body. Says Mr. Cates:

"There are two large north and south veins exposed to the east and west contacts of a large lime belt which has broken through the porphyry dipping 70 degrees to the west. Near the shaft, the croppings are 50 feet across, wld-ening to the south into an immense gossan 250 feet wide, being the strongest and most masterly showing in this section of the country. The veins are covered for 2,300 feet on their course by the company's claim and the entire distance shows strong mineralization in ron oxides, copper carbonates and sulphides. Intersecting these north and south veins are four east and west quartz veins all showing mineral from the surface which is demonstrated by numerous small shafts and trenches; and similarly to the O. K. at these intersections with the north and south vein the zones of enrichment are encountered. The ore, contrary to the O. K. occurs in a heavy iron gangue carrying high values in copper sulphides with gold and silver values and affords a most desirable flux for the more siliceous O. K. ores."

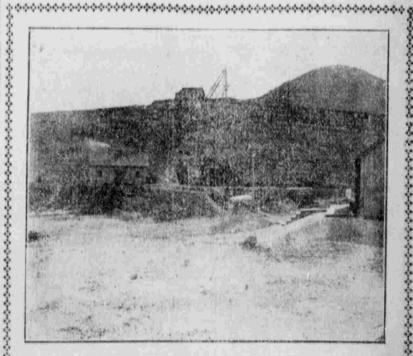
NEW EQUIPMENT INSTALLED.

A new air compressor has been in-stalled and the work of sinking the thaft to the 500 level will be inaugurated at once.

HARRINGTON-HICKORY MINE.

The Harrington-Hickory is principally a lead-silver producer, although a portion of the ores mined there show some copper values. The ores are principally of a low grade and will probably have to be handled in large quantity to bring in satisfactory returns. eries of experiments are now being made to determine which process is est adapted to the economic treatment of the ores. It is likely that the mine will be connected with the smelter by eerial tramway at no distint day. A mine than in any of the other Majestic

"On the surface," says Mr. Cates in his report, "a large lime belt extends for several miles in a northerly and (Continued on page 32.)



THE O. H. MINE AND CAMP.

THE MAJESTIC SMELTER AT MIL FORD. gineers in the west, while the metal- are ready for the return trip to the not improbable that another unit will lurgical tests were conducted under the direction of A. J. Bettles, whose ability in that line had been recognized by Mr. Newhouse some time previous to this. PRELIMINARY WORK SATISFAC-TORY.

The result of the preliminary work proved eminently satisfactory. and the Cactus mine was bought When its importance had become thoroughly established, naturally, the ques-tion of reduction works came up. The water problem was a serious one. At Milford, a supply sufficient for all needs could be had, but the question of transportation stood as an obstacle. Finally, negotiations were opened for the purchase of the Wah Wah springs, lo-cated on the west side of the Wah Wah valley, where a man by the name of Grover kept a feeding station for sheepmen, as well as a stopping point for the stages operating between Frisco

and Elv. Nev. WATER SUPPLY SECURED.

The deal was consummated, the several springs were developed, and the capacity found to be anywhere from 1,500 to 1,860 gallons per minute. During last year the construction of a ent site of the town of Newhouse, over a distance of eight miles, was com-menced. The line was completed this year and went into commission in May last; the water is conveyed through 13 and 14-inch pipe, and delivered by

mine. After being dumped the ore passes over grizzleys, the fines drop into the bins and the coarse ore goes into three 20x10 Blake crushers, crushing it Separate bins have been provided for the first class ores. From the bins below the crusher the crushed product is taken by 40-ton steel cars. handled by a Shay locomotive brought down to the mill over the line of the Newhouse, Copper Quich & Se-vier Lake railroad, built by the company, and is dropped into a bin, from which it is fed by plunger feeders to a belt conveyor, which takes it to the rolls. After passing the rolls, the product is then elevated, passes through Trommel screens, from which it is then distributed to the different just and tables, then into shading launders, and thence the concentrate is delivered to the bins provided, when it is ready for shipment

MILL A STEEL STRUCTURE. The mill is a steel structure covering

in area of 100x400 feet, and contains all the modern and improved machinery all the modern and improved machinery for the concentration of ore economi-cally and with the smallest percentage of loss. Incorporated in this are four pairs of crushing rolls, four sets of ele-vators, 2' sets of double compart-ment ilgs. 34 Wilney tables, eight Wilney slimers and a large system of settling tanks and classifiers.

IMMENSE POWER PLANT.

The power station is of brick and | With the preparatory campaign endsteel construction 55 feet by 111 feet di-

be tacked on during the year 1905. The Cactus ores concentrate about 6 into Almost since the first breaking of ground Field Supt. W. C. Thomas, has been on duty at Newhouse. The construction of the mammoth concentrato and the powerhouse has been under his direct supervision. P., H. Strickland

Gulch & Sevier Lake raffroad. During the year Mr. Newhouse called into his already efficient staff of advis-ers, Mr. Lee Hanchett, of wide mining experience in Colorado, Mr. Hanchett new serves the company as its finan-

has served the company as its engineer

in the field and it was he who laid out the line of the Newhouse, Copper

cial manager. ORES COME TO SALT LAKE.

Under the provision of a contract entered into with the American Smelting & Refining company the entire output of the Cactus mine will be shipped to the smelters in the Salt Lake Valley for a period of 10 years,

The company is employing at the

MEN EMPLOYED, PAY ROLL.

present time a force of about 300 men at the mine and in the construction work going on in the town, the pay rolls agregating from \$20,000 to \$22,000 monthly. Several substantial business houses will be built next year, one of them to cost no less than \$10,000.

ed, Samuel Newhouse will