

goes to smelters, but the telluride ores of that district are not, strictly speaking, free milling."

The above appeared in the Mining and Scientific Press of San Francisco, and Mr. Roy H. Clarke was seen yesterday, and said that the I. X. L. found it convenient to send the medium grade ore taken out during the development work because it was more economical at present for the company to do so. The loss under the mill process on ore taken out from the O. K., an adjoining property, was from 20 to 25 per cent. Take an ore that runs \$19, and the loss of 20 per cent. would leave \$8, and then deduct the cost of milling, and this would leave \$7. On this class of ore it would be cheaper to mill, as the cost of hauling the ore to the smelter at Northport and treating it there, is only \$1.50 per ton which is a much cheaper rate than is charged anywhere else in the United States. Ore that goes \$10 would leave \$6.50, and this class of ore should be treated in a mill. Take ore that goes \$20, and after paying the cost of transportation and treatment in the smelter, there would remain \$15.50 for the miner. If this ore were treated in a mill the loss of 20 per cent would leave \$16, and then take \$1 per ton for milling, and this would leave only \$15. This class of ore should be sent to the smelter, and there is a gain of 50 cents per ton in favor of the smelting process. Take ore that goes \$30 to the ton, and this is the class of ore that is being sent to the smelter from the I. X. L. and the loss of 20 per cent in the mill would leave \$24, and then deduct \$1 for milling expenses, and it would leave \$23. By sending it to the smelter there is \$25.50 left for the mining company after paying the freight and treatment charge of \$1.50.

The ore of the I. X. L. is what is commonly called a free milling ore. It carries a small percentage of base metals. There is some iron pyrite, copper pyrite, and a little galena in it. In the I. X. L. there are three grades of ore. In the course of the development, under the new management, there has been taken out about a ton of ore that carries free gold that is worth from \$1,500 or \$2,000 to the ton. Besides this, 200 tons of ore that goes from \$30 to \$19 to the ton has been extracted. In addition to this 500 tons of ore has been taken out and stored in the dumps, which is roughly estimated will go from \$10 to \$12 to the ton. The ore so far extracted has been taken out in the course of the development work. No attempt has been made to stope. When the mine is fully developed and stoping begins in earnest, it is very probable a mill will be used for the reduction of the ore. This will be done unless it is found that the ore becomes more base with depth.

The lower tunnel in the I. X. L. is in for a distance of 305 feet. It is expected that the ledge will be met within the next 10 days. This will give an ore shoot with a depth of 160 feet, and an average width of four feet.

#### A PLANT FOR THE GIANT

Rosslund, Nov. 28

Mr. E. D. Sanders, one of the syndicate that has the option of the stock of the Giant, is in the city, and yesterday he visited the property. He was seen at the Windsor shortly after his return from the property and reported that he was greatly pleased with its condition. The ledge is being opened on the surface with the idea of finding its extent and which is the best point at which to sink a shaft. There are, he says, between 400 and 500 tons of ore on the dump. Mr. Sanders is so much pleased with the outlook that he has decided to at once put in machinery so that work may be expedited. He has ordered a 10-drill compressor for the property. This plant cannot be delivered until March 1st, 1900. In the meantime the desire is to push work as speedily as possible. Mr. Mendenhall has a four-drill compressor in stock in this city, and this

will be installed at once. It is calculated that this can be put up and made ready for use in about 10 days. The work of hauling it to the Giant over the wagon road that runs through the property of the company, it is anticipated, will be commenced today. Superintendent Tregear is engaged in blasting out a space on the sidehill so that it can be used as a sight for the shaft house which it is the intention to erect. As soon as the plant is installed the work of sinking a shaft on the ledge will be commenced. It will follow the dip of the ledge and will, therefore, be inclined. The plan that was so successful at the Le Roi in finding the ore bodies will be followed on the Giant. The shaft will be of the two compartment type. The intention is to put up buildings that will not be costly. Utility and not style will be the policy in regard to the buildings. The dominant idea is to get out the ore and to do this in as cheap a manner as is consistent with good mining. Mr. Saunders says the stockholders will not care whether the Giant buildings are fancy or not so long as they receive dividends on their investments.

#### COXEY AND GERTRUDE.

Work continues along the usual lines on these two properties, but no developments of note were made during the past week. Mr. Hugh C. Baker, who has been superintendent of these properties for the past six months, has been promoted to the position of assistant to Major R. G. Edwards Leckie manager of the Republic mine at Republic, which is controlled by the same people who control the Coxey and the Gertrude. Mr. J. J. Sandiland, a mining engineer, late of England, has been appointed superintendent of these two properties to succeed Mr. Baker.

#### BIG THREE.

Work on the Mascot is making its usual progress. The west drift from crosscut No. 3 is in for a distance of 108 feet. The face is in mixed ore. The intermediate west drift, which was run from the winze is in in ore for a distance of 85 feet and the ledge here has been crosscut and the showing of ore is fair. On the lower level the west drift has been driven for a distance of 255 feet from South crosscut No. 2. The face of the drift is looking well.

#### WORK ON THE IRON COLT.

Is to Be Resumed on Friday, After a Long Shutdown.

Rosslund, Nov. 29.

Work on the Iron Colt is to be resumed on Friday. Mr. Alexander Sharp, who is now superintendent of the Boundary Creek Mining and Milling company at Deadwood camp is to be in charge of the operations. The Iron Colt has been shut down practically for 22 months, with the exception of a little work that was done last winter. The company was recently reorganized and made assessable up to 25 cents. The assessments can be levied at the rate of two and a half cents a share every four months after 30 days' notice to the stockholders. One of these assessments is now being collected, and this will give the company \$25,000 for developing the property. Everything is in readiness for resuming work.

#### VELVET.

Work continues along the usual lines, but there was nothing out of the usual order during the past week.

#### GIANT.

The ledge has been uncovered for a distance of 75 feet. The ore encountered during this process is being placed on the dump and there are now 300 tons piled up ready for shipment.

There is a five-drill compressor with drills and a 15-horse power hoist. The present development consists of a tunnel of about 1,200 feet, and about 150 feet of drifting. The management will endeavor to gain depth, and it is probable that the first work done will be to sink a shaft.

#### THE DEER PARK

Inrush of Water Causes Abandonment of Work on the Shaft.

Owing to the great rush of water, most of which comes from the surface, into the new shaft of the Deer Park, thus causing slow and expensive work in sinking, the management has shut it down altogether, pending an arrangement to have it sunk by contract. The force in the south drift has been increased to three eight-hour shifts, and work will be pushed forward with all possible speed until the drift comes directly under the new shaft, when an upraise will be started to connect with the new shaft, and at the same time the south drift will be continued. The breast of the drift is now only 80 feet away from the new find, and is becoming more mineralized. The work done thus far on the new find has proved up a large body of low grade ore, carrying good copper values, and scattered through this are small shoots of high grade ore, which assays as high as \$39 to the ton, and contains as high as 6 1/2 per cent copper. It is, therefore a reasonable expectation that further exploitation will reveal much larger shoots of high grade ore. The property is now fully equipped with all machinery, supplies, etc., for the winter. The financial condition of the company is excellent, the largest shareholders having confidence in its future, and there is no fear of any lack of funds for development purposes for some time to come. Owing to the proximity of the south drift to the find, some interesting developments may be looked for at any time.

The shaft in the Deer Park has now reached a depth of 90 feet, and the south drift on the lower level is about 110 feet from the new shaft. The ledge matter in the new shaft is improving, and carries more copper and is finer grained than it was nearer the surface. The ore averages about \$8 to the ton, but is of such a character as to lead to the belief that when the ledge is drifted on a pay shoot will be disclosed.

#### ST. EUGENE MINING CO.

Late advices from Moyie are to the effect that Mr. James Cronin has been appointed manager of the St. Eugene Consolidated Mining Company, which owns the St. Eugene, Moyie and Queen of the Hill mines. He announces that the company will not ship ore for some time to come, and that the intention is to push the development of the three properties for a year. The concentrator will not be operated until the labor troubles are settled. The stock of the company has been pooled, and will not be put on the market for a year. He also stated that the final payment on the Lake Shore would be made in a few days.

#### CALIFORNIA.

The main tunnel is in for a distance of 235 feet. The crosscut from the main tunnel is in for 31 feet. Work on the combined shaft and compressor building is making good progress, and work is being pushed on the other structures in course of construction. The office of the company has been removed from the Imperial building to the mine.

#### WHITE BEAR.

Work continues along the usual lines on this property. Some nice looking stringer of ore, which assay well, are being found on the 350-foot level.