

mouth to face. The tunnel was run on hanging wall without finding ore of value, so 200 feet east of the shaft, a cross-cut was put to foot wall, proving the vein was 42 feet wide, with 32 feet of mixed ore. A careful sample of the west side of this cross-cut in 5-foot sections gave 20 feet of \$10.00 ore and 12 feet of \$25.00 ore, total values. A Raise has been made from this crosscut to the 375 East level. The whole raise is in ore of varying value, it started in good ore, the first 140 tons shipped assayed \$19.88 gross value; the last 259 tons \$6.74. By special arrangement with smelter we were allowed \$1.74 per ton on this lot. As the head of the Raise comes out north of the good ore on the 375 East level, it is probable the main body of rich ore is south of the Raise. The tunnel west of the shaft has been in low grade ore; 158½ tons shipped as broken assayed \$13.18; giving, by special smelting terms, \$8.18 and 451½ tons shipped as broken from other portions, assayed \$16.40.

East Raise. This working did not discover any bodies of ore.

South Drift. Nothing has been done here for the year and the ore body 50 feet long, 30 in. wide, assaying \$20 gold per ton, with the same width and values in the face, remains intact. This drift was run 500 feet south and an ore body 40 feet long, 2 to 10 feet wide, encountered, which produced, when driving through it, 192 tons, assaying \$18.47, \$3,546.24 gross value and from stope above tunnel 326 tons assaying \$14.85, \$4,841.10 gross values. A total of 518 tons, averaging \$16.18, \$8,387.34 gross value, deducting cost of transportation and smelting, \$4,502.34 net value. There are yet 50 tons of the best ore piled in the tunnel. The ore body gave out going up, but is in bottom of tunnel.

625 East. In running this drift 90 ft. Easterly on the vein from the south cross-cut from the main shaft on the 625 foot level, 347 tons of rock broken in driving, shipped without sorting, assayed \$14.10, \$4,892.70 gross value. No drifting has been done west on the vein at point of intersection by the cross-cut, it averaged 6 feet wide, and \$25.00 in value.

Ore Reserves. There are large bodies of ore ready for extraction, of which the aggregate will run lower in value than the past product of the mine. I place it at 100,000 tons, smelters' gross value \$1,700,000.00; with the usual amount of development and shipping what could be conveniently stoped, I would again place the cost of extraction at \$3.25 per ton. The ore estimated as available is between the 250 ft. level and the bottom of the mine.

Surface Improvements. The present plant of compressor and hoist proved quite insufficient for our needs during the past year and the development has been slower than with a more complete plant. The new plant, con-