

Sullivan Mine.—Approximate metal contents of 44,084 tons of ore shipped in 1915 are estimated to have been about 20,300,000 lb. of lead and 474,000 oz. of silver. The total quantity of ore shipped from this mine in all years to the end of 1915 has been 275,000 tons, containing about 140,000,000 lb. of lead and 2,800,000 oz. of silver. The total length of development-work done in it is about 30,000 lineal feet, or 5.68 miles. In the Consolidated Mining and Smelting Company's last annual report, issued in December, the manager stated that in the last fiscal year "development has been confined principally to the old tunnel-level and the level 100 feet below it, and some promising bodies of ore have been opened in the drifts and by diamond-drilling (of which 3,838 feet was done). A tunnel has been started at a depth of 700 feet below these upper workings, which it is intended will be the main working-tunnel of the mine. This tunnel will be between 8,000 and 9,000 feet long before it reaches the present workings of the mine. An electrically driven shovelling-machine has been installed for handling the rock from this tunnel." The machine referred to is known as a Myers-Whaley "mucking-machine," and its operation in this mine is reported to have been giving much satisfaction.

The general manager of the Consolidated Company says in his annual report: "During the year considerable experimental work was carried on in the production of electrolytic zinc, and spelter of a good grade has been produced at the rate of about $\frac{1}{2}$ ton per day from zinc contained in the *Sullivan* ore. The results have been promising enough to warrant the building of a larger plant, and, on account of exceptional circumstances, a plant of 25 to 35 tons capacity of spelter per day has been designed and is now being erected. It is hoped that this will be in operation early in the year. The operation of this plant should make available a very large amount of complex ore at the *Sullivan* mine, and the extraction of this ore will probably lead to the development of further bodies of lead ore in the same mine."

Construction-work on the electrolytic plant at Trail is being rushed, and it is expected that by March the plant will be in operation. The company has a contract with the Imperial Government to take all the zinc they produce in 1916 at a fixed price.

St. Eugene.—Very little work was done in this mine in 1915, no new shoots of ore having been discovered as a result of the comparatively small amount of exploration done during the last year or two.

Other Mining Properties.—No important progress at either the *Aurora* or the *Society Girl* was made last year. Attention was directed toward low-grade gold-ore bodies on Perry creek, and to copper-ore occurrences in the neighbourhood of St. Mary's river, but no important results have yet been achieved, so far as known.

The *Monarch* mine, at Flekl, in the Golden Mining Division, has been steadily worked since the early summer by the Great Western Mines Development Company, Limited, a Vancouver company. This property has been worked intermittently for many years, producing lead ore and concentrates carrying very low silver values. The ore carries zinc, but until the arrival of high zinc prices prevailing this year it was not possible to ship the zinc at a profit. This year, however, 337 tons of zinc concentrate was shipped, for which a good contract had been obtained. There is a considerable tonnage of low-grade zinc ore on the dump which may later on be put through the 40-ton concentrator. Development has been continued with, it is said, satisfactory results.

In the Windermere District the *Lead Queen*, on Frances (No. 3) creek, was bonded by Burgess and Barry, of Atholmer, and work commenced in a small way on the property. The construction of a fourteen-mile wagon-road was started and should now be nearly finished. Shipments of ore will commence as soon as the road is completed. The ore is galena and will be hand-sorted to a product assaying 40 to 60 oz. silver and 50 to 60 per cent. lead. No very large ore reserves have been proven on the property as yet, but development will be pushed ahead.

A small shipment of 8 tons of silver-lead ore from the *Silver King* represented a clean-up of the dumps of prospect-holes, etc.