

trate containing 3,778,000 lb. of zinc and 102,000 oz. of silver. About 6,000 feet of development-work was done, of which about 2,000 feet was drifting and cross-cutting in the *Alpha* mine, situated at a higher elevation than the original *Standard* mine. No important body of ore has yet been found in the *Alpha* by the *Standard* Company. Of the older levels of the *Standard*, Nos. 3, 4, and 5, most development-work in 1915 was done on No. 4, which was extended, crosscuts were driven from it, and raises made. Work done on Nos. 5 and 6 was drifting, crosscutting, and raising. Most of the large quantity of ore taken from the mine during the several years of its highest production was mined above No. 6 level. Not less than 1,600 feet of work was done on and from No. 7, this consisting of drifting and crosscutting about 800 feet and as much raising. Ore was found in a raise and it was drifted on between 100 and 200 feet, while an intermediate level between Nos. 7 and 6 was driven in ore for at least 100 feet, and stopes were opened from it. The ore at both east and west extremities of this shoot was lucky, but the heart of it gave much silver-lead ore. Work was stopped in No. 8 level at the beginning of February, and it was not until September that the miners were put back into this lowest level of the mine; the adit was extended and both crosscutting and raising was done, the raise going up in ore, of which there was not more than 3 feet in its widest part. In January, however, it was reported that a much better shoot of ore had been encountered on this level, but no particulars have been received. At the company's concentrating-mill, which was operated continuously during the latter half of the year with excellent results as regards concentration of ore, a small experimental flotation plant was put in with the object of making tests in the direction of a higher saving of the zinc in the ore. Dividends were paid by the *Standard* Company during the last four months of the calendar year, the total amount distributed during that period having been \$250,000.

Very little information has been obtained relative to the *Heavit-Lorna Doone* group of the *Silverton Mines, Limited*, or the company's concentrating-mill situated on Four-mile creek four miles up the creek from *Silverton*. The total of silver-lead concentrate received at *Trail* in 1915 from this property was 641 tons. No. 8 level of the mine was in 1,800 feet in October, this level giving a depth of 1,200 feet. An extensive area of ground in which there is known to be a large quantity of high-grade ore has been opened by the later development of this property, there being shipping-ore of good quality down to the lowest level yet opened in the mine. A flotation process has been successfully used in connection with the concentration of the *Heavit-Lorna Doone* ores, but particulars have not yet been made public.

Work at the *Lucky Thought* in 1915 was chiefly in No. 3 adit and raising to the level above. A road was constructed up the mountain almost to the entrance to the mine. Silver-lead ore shipped to *Trail* totalled 101 tons. The property is being explored by the *Consolidated Mining and Smelting Company* under option of purchase.

On the opposite range of mountains, situated 600 feet higher up than the *Alpha* workings, is the *Echo*, upon which much exploratory work was done during 1915. A big vein extends from the *Standard* through the *Alpha* and *Echo* and, it is claimed, on over the divide to the *Idaho-Alamo* properties. When visited at the beginning of November a lower tunnel was in 500 feet and an upper one 100 feet. The vein-filling was chiefly a black graphitic rock in which ore was found to occur in bunches, but no considerable body of ore had been encountered up to the time mentioned. Fourteen tons of ore was shipped from the *Buffalo* and 32 tons from the *Wakefield*; the latter well-known old mine has been acquired by local men, who took out a car of ore early in the autumn. The *Comstock*, near the headwaters of Four-mile creek, was worked by leasers, who shipped a small lot of ore which, however, did not reach *Trail* until January. South-east of *Silverton* there is the *L.H.*, on which, since the *British Columbia Copper Company* relinquished its hold, some further development has been done by its owners.