

claim at 293 feet in cut what is called the Blind lead, this not showing on the surface. A drift has been run 200 feet north and 232 feet south on this lead. At 56 feet farther in the cross-cut tapped the Silver Cup lead and this has been drifted in at this level 80 feet north and 232 feet south. The lower workings are 93 feet below the upper, and these give depth of 243 feet



View of lower workings of Silver Cup Mine, showing waste and concentrate dump.

from the surface. The Blind lead was cut at 226 feet in this cross-cut tunnel and the Silver Cup lead at 282 feet. A drift runs south 755 feet, part of the way on the Blind lead, and another on the Cup lead 90 feet north and 191 feet south. Nearly all the ore has been stoped from these lower workings to the surface.

On the Sunshine the upper workings consist of a drift 290 feet in length at a level about 140 feet lower than the lower workings of the Silver Cup. Another tunnel, in 875 feet at the end of last August, at a level 100 feet below the upper workings, is being driven to cut the Silver Cup ore shoots.

A Riblet tram, 8,000 feet long, connects the Silver Cup with the waggon road at Eight-Mile, the difference in the elevation between upper and lower terminals being about 3,000 feet. A 50-h.p. horizontal return tubular boiler, a 14 x 18 McKiernan air compressor, and a 5 x 7 Lidgerwood pneumatic hoist were sent up to the mine over this tram, boiler and air compressor having been made in sections to admit of their being so transported. The compressor is nominally a 5-drill engine. At the elevation it is here working its capacity is 350 cubic feet of free air per minute. Extensions of the aerial tramway system are being made, Mr. B. C. Riblet having been given an order to construct a tram, 15,000 feet in length, between the existing tram and the mill now in course of erection at Five Mile, and a short tram from the upper workings of the Silver Cup to the upper terminals of the tram now in operation. A new boarding house was being built at the

time the mine was visited, and there were some fifty men on the mine payroll.

**SILVER CUP MILL.**—At Five-Mile Camp, distant rather more than a mile from Ferguson, on the South Fork of Lardo Creek, the Union Iron Works, of San Francisco, California, is erecting for the Silver Cup Company a 20-stamp combination silver mill, which is intended to treat the ore of both the Silver Cup and Nettie L. The mill is designed so that the ores of the two mines may be treated simultaneously if required, an imaginary line dividing the plant right through the centre of the mill. Separate aerial trams from mines to mill, grizzlies, crushers, units of ten stamps, buddles, vanners, pulp elevators, furnaces, and all other plant right through to the retorts, are so arranged that the product of one mine may be kept separate from that of the other. In the district the mill is generally spoken of as a concentrator, but it is more—it is as above stated, a combination silver mill, the combination consisting of milling, concentrating, roasting and pan-amalgamation. The mill main building is 68 feet wide by 216 feet 6 inches long, and, and its total height from the lowest floor up to where the ore is received from the aerial tram buckets is 92 feet. The length of the building is taken up as follows: Extension behind ore bins for tramway terminal, 15 feet; battery room, 37 feet 6 inches; Dodd buddle room, 23 feet 5 inches; vanner room, 24 feet; dry floor and furnace room, 84 feet 7 inches; pan room, 32 feet; total, 216 feet 6 inches. The building is of lumber cut on the spot, excepting the truss cords which were hewn out of solid timber in the neighbouring forest. It is laid on 8 x 10



View in Selkirk range from Silver Cup mine.

sills, with 8 x 10 posts, plates and caps. There are 14 truss cords, each 8 inches by 12 inches and 68 feet long. The sides are double-boarded and interlined with tar paper and the roof is boarded, lined with tar paper and covered with corrugated galvanized iron. The several terraces are supported by substantial mas-