per ton, for width of 56 in.; from 668 ft. to 740 ft., 10s. 3d. per ton for width of 60 in.; from 740 ft. to 764 ft., £5 9s. 4d. per ton, for a width of 55 in.; from 764 ft. to 786 ft., £6 5s. 3d. per ton for a width of 51 in. At 786 ft. the reef is cut off by the main fault. The following crosscuts exposed the full width of the lode: No. 3 crosscut (at 280 ft. east of main crosscut), 22 ft. wide; value, 10s. 1d.: No. 4 crosscut (at 370 ft. east of main crosscut), 18 ft. wide; value, 9s.: No. 5 crosscut at (470 ft. east of main crosscut), 15 ft. wide; value,  $\pounds 1$  8s. 9d.: No. 6 crosscut (at 565 ft. east of main crosscut), 12½ ft. wide; value, 11s. 6d.: No. 7 crosscut (at 680 ft. east of main crosscut), 21 ft. wide; value, 1s. Continuing the drive beyond the fault, the next 16 ft. is broken country. From 802 ft. to 809 ft. is disturbed quartz, assaying  $\pounds 3$  2s. 6d. From 809 ft. to 856 ft. is disturbed country; from 856 ft. to 866 ft. is reef, assaying  $\pounds 1$  15s. 9d.; from 866 ft. to 871 ft is country rock: from 871 ft to 874 ft is roof provincies for  $\hbar 1$  ft. for 874 ft is country ft. to 871 ft. is country rock; from 871 ft. to 874 ft. is reef, assaying £1 5s.; from 874 ft. to 880 ft. is country rock. Drives on the 856-866 vein and the 871-874 vein then advanced east to 920 ft., and also west until the fault was met. The two veins were broken out as one body a total length of 110 ft., the average width being 8 ft. and the average value £3 4s. 6d. per ton. From Period for the first, the average width being of t. and the average value  $\pm 5$  fs. ou. per ton. From 920 ft. to 973 ft. east the main lode is disturbed, and low grade. At 920 ft. east a main crosscut to the Grace lode was started, and has advanced 165 ft. At 8 ft. cut 20 in. of quartz, assaying  $\pm 1$  10s.; at 15 ft., 36 in. of quartz, assaying  $\pm 1$  4s. 4d. The crosscut is in disturbed country to 70 ft. From 78 ft. to 124 ft. passed through a solid body of mixed quartz and country of low value. From 124 ft. to 165 ft. the country is disturbed. At 920 ft. east a main crosscut to the Porcel lode was started, and has advanced through called average to 212 ft. At 145 ft. is the Royal lode was started, and has advanced through solid country to 213 ft. At 145 ft. it passed through a 42 in. seam of quartz of low value. No. 8 rise advanced 37 ft., making total 87 ft., and holed to winze from No. 5 level; the foot-wall was exposed, and the assays averaged £3 18s. 8d. for width of rise. No. 13 rise was put up 56 ft., and holed to winze from No. 5 level; the first 34 ft. assayed 18s. 11d. for 48 in. wide; the ore is narrow, and cuts out at 45 ft. above the first 34 ft. assayed 18s. 11d. for 48 in. wide; the ore is narrow, and cuts out at 45 ft. above the level; foot-wall is exposed. No. 18 rise was put up 54 ft., and holed to winze from No. 5 level; the width of lode in rise is 41 in., and assays averaged  $\pounds 6$  2s. 1d. per ton. No. 8 winze was sunk 50 ft.; assays averaged—From level to 14 ft.,  $\pounds 1$  17s., for width of 45 in.; from 14 ft. to 45 ft.;  $\pounds 3$  16s., for width of 35 in.; from 45 ft. to 50 ft.,  $\pounds 1$  11s., for width of 66 in. A crosscut at 50 ft. down exposed both walls. The reef was 25 ft. wide, and assays averaged  $\pounds 2$  13s. 1d. No. 9 winze was sunk 37 ft.; assays averaged—From level to 26 ft.,  $\pounds 2$  8s. 6d., for a width of 38 in.; from 26 ft. to 30 ft., 8s. 11d., for a width of 39 in.: only the foot-wall being exposed. No. 11 winze was sunk 56 ft.; assays averaged—From level to 17 ft. down, no value; from 17 ft. to 48 ft. down. £1 3s. 4d. from width of 48 in.: from 48 ft. to 56 ft. down. £3 3s. 8d. from to 48 ft. down, £1 3s. 4d. from width of 48 in.; from 48 ft. to 56 ft. down, £3 3s. 8d. from width of 40 in. The crosscut at 50 ft. down exposed lode of quartz, stringers, and country 10 ft. wide, which assayed  $\pounds 2$  8s. per ton. At the west drive (west of south-east crosscut) the main drive advanced 128 ft., and reached the western boundary at 441-ft.; assays averaged-From 313 ft. to 365 ft., £2 7s. 7d., for 64 in. width; from 365 ft. to 441 ft., £1 10s. 7d., for 58 in. width. No. 4 crosscut (at 345 ft. west) proved the lode to be  $10\frac{1}{2}$  ft. wide, and assays averaged £1 2s. 10d. per ton. At No. 5 crosscut (at 420 ft. west) the lode proved to be 9 ft. wide, and assays averaged £2 6s. 6d. This crosscut was continued 26 ft. into the hanging-wall country, but did not disclose any further quartz. At 10 ft. west of No. 3 rise a crosscut was driven 21 ft. into the foot-wall country; no quartz was discovered. No. 4 rise was put up  $35\frac{1}{2}$  ft., and holed to the winze from No. 5 level. The walls were not exposed, and assays averaged 6s. 6d. for 48 in. width of rise. No. 5 level. The wans were not exposed, and assays averaged os. od. for to in. with of rise. No. 4 winze was sunk 15 ft. in low-grade quartz; the walls were not exposed. No. 5 winze was sunk 12 ft. close to the foot-wall lode; from level to 7 ft. down assays averaged £2 19s. 4d. for 32 in.; and from 7 ft. to 12 ft., £1 18s. 8d. for 30 in. width. To effect a direct communication between the south-east crosscut and the Empire main lode west, 66 ft. was driven along the footwall of the lode. The average of assays along this drive was £1 1s. 5d. for a width of 77 in. Republic lode—No. 1 winze (60 ft. east of the south-east crosscut) was sunk 4 ft.

Republic lode—No. 1 winze (60 it. east of the south-east crosscut) was sunk 4 it..
No. 5 level: Royal lode—No. 1 winze was sunk 73 ft.; assays averaged—From level to 32 ft., £2 Is. 6d., for 48 in. of width; from 32 ft. to 58 ft., 19s. 1d., for 47 in. of width; from 58 ft. to 73 ft., 15s., for 52 in. of width: the walls are not exposed. No. 8 winze was sunk 671 ft.; assays averaged—From level to 21 ft., 9s., for 32 in. of width; from 21 ft. to 65 ft., £1 18s. 4d., for 40 in. of width: at 50 ft. down the lode is 5 ft. wide, with both walls exposed. Mary lode—No. 1 rise was started from the shrinkage stope at 70 ft. above No. 5 level. After 66 ft. of rising it holed to No. 1 winze from No. 4 level. Assays averaged, from stope to 15 ft. up, £1 7s. 6d., for 40 in. of width; 15 ft. to 66 ft. up, £1 12s. 8d., for 42 in. of width: the walls are not exposed.

No. 4 level: Mary lode—No. 1 winze was such 19 ft., and connected with No. 1 rise from No. 5 level; assays averaged £2 12s., for 40 in. of width: walls not exposed. No. 1 shaft (main) was such 77½ ft., making total of 1,167 ft. below the surface, and  $85\frac{1}{2}$  ft. below No. 6 level. Crossing the centre of the pump shaft is a reef striking north-east, and almost vertical. Assays taken 25 ft. below No. 6 level gave 8s. per ton, for 66 in. width; at 52 ft. down, 2 ft. on north-55 ft. down, 5 ft. on south-east side assayed 7s. 9d. per ton; at 68 ft. down the reef was 10 ft. wide, and assayed £1 12s. 6d. across the centre of shaft and 18s. 8d. across the south end. At 73 ft. down the reef is worth 14s. for 9 ft. of width; and at 80 ft. 12s. 9d. for 8 ft. of width

wide, and assayed £1 128. ou. across the centre of shart and 108. ou. across the south end. At 73 ft. down the reef is worth 14s. for 9 ft. of width; and at 80 ft., 12s. 9d., for 8 ft. of width. Milling results: 98,383 tons, of 2,000 lb. each, the average value of which was £2 ls. 7d. per ton, gave a gross value of £204,765 2s. 5d. Total value of bullion actually recovered, £180,019 19s. 9d. Extension of mill: Work in connection with the erection of another twenty head of heavy stamps was commenced in September. There is also included an ore-bin of 800 tons capacity, installation of a 150 horse-power motor with rope-drive, vanners, and other necessary appliances. Good progress is being made with this work, and it is anticipated that everything will be running by the end of April next.