per ton, for width of 56 in .; from 668 ft . to 740 ft ., 10 s . 3 d . per ton for width of 60 in .; from 740 ft . to 764 ft ., $£ 59 \mathrm{~s} .4 \mathrm{~d}$. per ton, for a width of 55 in . ; from 764 ft . to 786 ft ., $£ 6$ bs. 3 d . 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 tull width of the lode: No. 3 crosscut (at 280 ft . east of main crosscut), 22 ft . wide; value, $10 \mathrm{~s} .1 \mathrm{~d} .:$ No. 4 crosscut (at 370 ft . east of main crosscut), 18 ft . wide; value, 9 s . : No. 5 crosscut at ( 470 ft , east of main crosscut), 15 ft . wide; value, £ 18 s .9 d . : No. 6 crosscut (at 565 ft , east of main crosscut), $12 \frac{1}{2} \mathrm{ft}$. wide; value, 11 s . $6 \mathrm{~d} .:$ No. 7 crosscut (at 680 ft . east of main crosscut), 21 ft . wide; value, 1 s . Continuing the drive beyond the fault, the next 16 ft . is broken country. From 802 ft . to 809 ft . is disturbed quartz, assaying £3 2 s .6 d . From 809 ft . to 856 ft . is disturbed country; from 856 ft . to 866 ft . is reef, assaying $£ 115 \mathrm{~s} .9 \mathrm{~d}$. ; from 866 ft . to 871 ft . is country rock; from 871 ft . to 874 ft . is reef, assaying $£ 15 \mathrm{~s}$. ; 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 $£ 34 \mathrm{~s}$. 6 d . 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 $£ 110 \mathrm{~s}$. ; at $15 \mathrm{ft},, 36 \mathrm{in}$, of quartz, assaying $£ 14 \mathrm{~s}$. 4 d . 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 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 $£ 318 \mathrm{~s}$. 8 d . 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 18 s .11 d. 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 $41 \mathrm{in} .$, and assays averaged $£ 62 \mathrm{~s}$. 1 d . per ton. No. 8 winze was sunk 50 ft .; assays averaged-From level to 14 ft ., $£ 117 \mathrm{~s} .$, for width of 45 in .; from 14 ft . to 45 ft 事"£3 16 s. , for width of $35 \mathrm{in} . ;$ from 45 ft . to 50 ft ., $£ 111 \mathrm{~s}$., for width of 66 in . A crosscut at 50 ft . down exposed both walls. The reef was 25 ft . wide, and assays averaged $£ 2$ 13s. Id. No. 9 winze was sunk 37 ft .; assays averaged-From level to 26 ft , £2 8 s . 6 d ., for a width of 38 in . ; from 26 ft . to $30 \mathrm{ft}$. , 8 s . 11 d ., 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, $£ 13 \mathrm{~s} .4 \mathrm{~d}$. from width of 48 in .; from 48 ft . to 56 ft . down, $£ 33 \mathrm{~s} .8 \mathrm{~d}$. from width of 40 in . The crosscut at 50 ft . down exposed lode of quartz, stringers, and country 10 ft . wide, which assayed $\mathscr{L} 28 \mathrm{~s}$. per ton. At the west drive (west of south-east crosscut) the main drive advanced 128 ft ., and reached the western boundary at 441 ftt ; assays averaged-From 313 ft . to 365 ft ., $£ 27 \mathrm{~s} .7 \mathrm{~d} .$, for 64 in . width; from 365 ft . to 441 ft , $£ 110 \mathrm{~s} .7 \mathrm{~d}$., for 58 in . width. No. 4 crosscut (at 345 ft . west) proved the lode to be $10 \frac{1}{2} \mathrm{ft}$. wide, and assays averaged $£ 12 \mathrm{~s}$. 10 d . per ton. At No. 5 crosscut (at 420 ft . west) the lode proved to be 9 ft . wide, and assays averaged $£ 26 \mathrm{~s} .6 \mathrm{~d}$. 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 $35 \frac{1}{2} \mathrm{ft}$., and holed to the winze from No. 5 level. The walls were not exposed, and assays averaged 6 s . 6 d . for 48 in . width 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 $£ 219 \mathrm{~s}$. 4 d . for 32 in .; and from 7 ft . to 12 ft ., $£ 118 \mathrm{~s}$. 8 d . 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 $£ 1 \mathrm{ls}$. 5 d . for a width of 77 in . Republic lode-No. 1 winze ( 60 ft . east of the south-east crosscut) was sunk 4 ft .

No. 5 level : Royal lode-No. 1 winze was sunk 73 ft . ; assays averaged-From level to 32 ft ., $£ 21 \mathrm{~s} .6 \mathrm{~d} .$, for 48 in . of width; from 32 ft . to 58 ft ., 19 s . 1 d ., for 47 in . of width ; from 58 ft .
to 73 ft ., 15 s ., for 52 in . of width: the walls are to 73 ft ., 15 s ., for 52 in . of width: the walls are not exposed. No. 8 winze was sunk $67 \frac{1}{2} \mathrm{ft}$.; for 40 in of for 40 in . of width: at 50 ft . down the lode is 5 ft . wide, with both walls exposed. Mary lodeit holed to No, 1 winze from Nhrinkage stope at 70 ft . above No. 5 level. After 66 ft . of rising 40 in , of width; 15 ft . to 66 ft .4 loge Assays averaged, from stope to $15 \mathrm{ft} . \mathrm{up}, £ 17 \mathrm{~s} .6 \mathrm{~d}$., for

No. 4 level : Mary lode-No. 1 winze was for 42 in . of width : the walls are not exposed. No. 5 level ; assays averaged $£ 212 \mathrm{~s}$., for 40 in of 19 ft , and connected with No. 1 rise from No. 5 level ; assays averaged $£ 212 \mathrm{~s} .$, for 40 in . of width : walls not exposed. No. 1 shaft (main) Crossing the centre the pump shaft is taken 25 ft , below No 6 level $p$ shaft s reef striking north-east, and almost vertical. Assays west side, gave a value of 6 level gave 7 d . per , 5 ft . 7 s .9 d . ; and at 52 ft . down, 2 ft . on north55 ft . down, 5 ft . on south-east side assayed 7 s .9 d . per ton; at 68 ft . down the reef was 10 ft . wide, and assayed $£ 112 \mathrm{~s}$. 6d. across the centre of shaft and 18 s . 8 d . across the south end. At 73 ft . down the reef is worth 14 s . for 9 ft . of width; and at $80 \mathrm{ft} ., 12 \mathrm{~s} .9 \mathrm{~d}$., for 8 ft . of width.

Milling results : 98,383 tons, of $2,000 \mathrm{lb}$. each, the average value of which was $£ 21 \mathrm{~s} .7 \mathrm{~d}$. per ton, gave a gross value of $£ 204,7652 \mathrm{~s}$. 5 d. Total value of bullion actually recovered, $£ 180,01919 \mathrm{~s}$. 9 d . 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.

