

ANNEXURE A.

SUMMARY OF REPORTS BY INSPECTORS OF MINES.

NORTHERN INSPECTION DISTRICT (Mr. M. PAUL, Inspector of Mines).

Quartz Mining.

Waihi Gold-mining Company (Limited), (J. L. Gilmour, Manager).—During the year No. 4 shaft was sunk 172 ft., making the total depth 1,788 ft. No. 14 level chamber was opened out 173 ft. below No. 13 level, or 1,752 ft. from surface. No. 2 shaft was sunk 38½ ft., making a total of 1,519 ft. from surface. No. 12 chamber has been opened out 146 ft. below No. 11 level.

No. 13 level (1,578½ ft.).—No. 4 shaft, south-east crosscut, was driven 229½ ft., making a total of 338 ft. The Royal lode in this crosscut is split into three sections, varying from 3 ft. to 7 ft. wide. Driving was commenced on the 5 ft. section at 279 ft., a distance of 29 ft. east and 17 ft. west being done in quartz of low value.

No. 13 level.—The north-west crosscut from No. 4 shaft was driven 407½ ft., making the total length 525 ft. The Dreadnought lode was met at 197 ft., the full width being 27 ft. and value low. A considerable flow of water was met on the intersection of this reef. The following further veins were met: At 257 ft., quartz and country mixed, 5 ft. wide; at 277 ft., quartz 10 ft. wide; at 314 ft., quartz 10 ft. wide; at 337 ft., quartz 18 ft. wide; at 380 ft., quartz 5 ft. wide; at 441 ft., quartz 5 ft. wide; at 485 ft., quartz 15 ft. wide. On this last vein, which is called the North section of Martha lode, 317½ ft. was driven east on its course and 354 ft. west; the width varied from 5 ft. to 15 ft. At 316 ft. east a crosscut was driven south and penetrated quartz for a distance of 50 ft. without exposing the south wall. The North section and the main portion of the Martha, form one body here. The work done on the North section disclosed short isolated payable runs.

No. 12 level (1,447½ ft.).—South section of Empire lode east of No. 4 shaft, north-west crosscut: 222½ ft. was driven during the year, bringing the total length to 806½ ft. The width varied from 18 in. to 8 ft., and the assay value was low throughout.

Cow North-west crosscut was commenced from the Dreadnought lode at a point 530 ft. east of No. 4 shaft crosscut. At 62 ft. the Empire section of Martha lode was intersected; width, 20 ft.; and the average assay value was £1 15s. 6d. per ton. A total of 278½ ft. was driven east on its course. At 100 ft. a crosscut proved 27 ft. of ore; average assay value, £2 6s. 9d. per ton. This crosscut was continued on through the main Martha lode, which was of low value. A crosscut at 200 ft. showed 20 ft. of ore assaying £1 10s. 6d. per ton. At 270 ft. a crosscut was driven to the north wall of Martha lode. The lode at this point is 69 ft. wide, but no payable ore was met.

North section of Martha lode west of Bath north-west crosscut: A total distance of 460 ft. was driven on the course of the reef. The width of quartz varied from 5 ft. to 10 ft., and assay value on the whole low. The East drive from Bath crosscut on the Main section of Martha lode was advanced to 244 ft. At 100 ft. east the full width of reef is 68 ft., 10 ft. on the south wall averaging £1 4s. 6d. per ton. At 200 ft. east the full width is 97 ft. There is a section 10 ft. wide about the centre of lode assaying £1 12s. 9d. per ton.

Royal, east of No. 4 shaft, South crosscut: The drive was advanced 145 ft., making a total of 168½ ft. The width at 134 ft. is 8 ft.; assay value, 16s. 1d. per ton.

Edward lode: A crosscut was projected across the Edward lode at a point 160 ft. south on the west wall gangway. The West section is 30 ft. wide, and the average assay value is 11s. per ton; the East section about 65 ft. wide, with an average assay value of £1 9s. 6d. per ton. At 75 ft. south a crosscut showed the full width to be 77 ft., of which 10 ft. has an assay value of £1 12s. 3d. per ton. The total distance driven south on the course of the reef is 85 ft. At 75 ft. north the full width of reef is 43 ft., of which 5 ft. assays £1 14s. 11d. per ton.

No. 11 Level (1,301 ft.).—Salmon West crosscut: This prospecting crosscut was driven 575 ft. from Edward lode. At 249 ft. there is a vein 12 in. wide assaying £3 5s. 11d. per ton. The country in the crosscut was mostly oxidized.

Kingsford South-east crosscut, situated at 50 ft. east of Lion South-east crosscut, was driven a total of 100½ ft. At 53 ft. the Centre section of Empire lode was intersected; width 18 ft., and assay value £2 9s. 2d. per ton. Driving was done on this reef, the payable ore extending to 80 ft. east and 50 ft. west, the width averaging about 9 ft.

No. 10 Level (1,152 ft.).—Edward lode: The drive south on this reef was extended 169 ft., making a total of 1,433 ft. At 1,358 ft. the width is 10 ft., and assay value £3 8s. 3d. per ton; at 1,390 ft. the width is 20 ft., and assay value £3 5s. 6d. per ton.

No. 7 Level.—Alexandra lode east of Rimu Pass: A total distance of 415 ft. was driven on the course of this reef during the year. The width of quartz averaged about 2 ft.

Jellicoe reef west of Rimu winze: A total of 302½ ft. was driven on the course of this reef. The width of quartz varied from 18 in. to 5 ft., and the assay value is payable throughout.

North branch of Martha lode east of Jove crosscut: A distance of 142 ft. was driven. The width varied from 1 ft. to 5 ft., and the ore is of good grade.

No. 6 Level.—Jellicoe reef, east of No. 2 shaft, south-east crosscut: 224 ft. was driven in payable ore. The width varied from 2 ft. to 5 ft.

Alexandra lode: 276 ft. east and west was driven on the course of this reef in payable ore. The reef averages about 4 ft. wide.

North branch of Martha lode east of Jove south-east crosscut: 229½ ft. was driven in good grade ore. The width of quartz varied from 2 ft. to 11 ft.

No. 5 Level.—Alexandra lode east of Albert Junction: 291½ ft. was driven. The reef is small and irregular in width.

Open cut and Western Smithy level: A considerable tonnage was obtained from these places during the year.

Waihi Grand Junction Mine (W. McConachie, Mine-manager).—No. 1 shaft (main): No. 1 shaft was sunk 100 ft., making a total depth of 1,573 ft. below the surface and 33 ft. below No. 10 level. From 1,473 ft. to 1,537 ft. the shaft was sunk through a soft class of country rock. From 1,537 ft. to 1,561 ft. the shaft passed through bands of dark brecciated soft country rock dipping 10° to the south-east. From 1,561 ft. to 1,573 ft. is solid country rock.

No. 10 level was opened at 100 ft. below No. 9 level and 1,540 ft. below the surface, and sinking below No. 10 level has been resumed. A water-cistern, having a capacity of 12,000 gallons, has been excavated and completed at No. 10 level. The Williams and Robinson stationary pump, which has been operating from No. 9 level, has been transferred to No. 10 level. This pump will now deliver the water to the main station at No. 8 level, and the sinking-pump will discharge its water to the new cistern at No. 10 level. During the year 117,369,860 gallons of water were raised to the surface.

No. 10 level.—The Main South-east crosscut was driven a total of 177½ ft. from No. 1 shaft. The crosscut advanced through soft country rock to 59 ft., where a fissure of 2 ft. wide, filled with loose oxidized quartz rubble of no value, was passed through. From this fissure to 70 ft. is country rock. At 70 ft. a fault 8 ft. wide, filled with soft crushed country rock was met. From the fault to 113 ft. is soft bedded country rock dipping 40° south-east. From 113 ft. to 136 ft. is country rock. At 136 ft. the Empire lode was intersected. The following values were obtained: 136 ft. to 140 ft. is quartz; value, 3s. 6d. per ton. 140 ft. to 148½ ft. is quartz, value, 19s. 8d. per ton. 148½ ft. to 161 ft., a mixture of quartz and country rock; value, 3s. 4d. per ton. 161 ft. to 166 ft. is country rock. 166 ft. to 169½ ft., quartz, value, 5s. 6d. per ton. 169½ ft. to 177½ ft. is footwall country rock.