

veloped will be found to carry pay-ore for a much greater length and the McNaughton belt will probably be workable for as great a length. A continuous zone of pay-veins has been worked to limited depths all along the south limb of the Goldenville anticlinal fold, for a length of 4,400 feet from the Springfield to the Palmerston belt, beyond which development works have been prevented by the swampy nature of the ground. The surface developments are sufficient to prove that this zone affords a field of virgin ground, large enough for several mines like that operated by the Bluenose Company.

GEO. W. STUART'S NEW SHAFT.

Mr. George W. Stuart is also at present sinking a shaft on area 743, and 75 feet west of the open cut on the Palmerston belt, in order to develop the zone of pay veins, which has proved very rich in gold in this vicinity, by a system of cross tunnels and drifts at different levels.

Pay Zone on North Dip.

The developments on the north dip at the Bluenose mine have not yet been sufficient to determine the pay zone, but on the Cantley belt they show that the workable portions of the veins are restricted to certain parts of the subordinate flexure occurring on the north limb of the main anticline, and further developments will, no doubt, determine some well defined zones of pay-chutes pitching like the flexure, easterly 20° .

ROYAL OAK MINE.

The most regular and continuous pay-chutes worked in Goldenville were operated on the north dip. In the plan and report of that district published in 1897, three zones of pay-chutes are given: the Wellington, Hayden, and McRae lines of pay-chutes. In the Summary Report for the same year, page 109, referring to the Hayden line of pay-chute, I said: "A swamp lying north-west of the Little Hayden has, no doubt, prevented prospecting further north-west on this undulation, but there is every reason to believe that rich streaks occur there." It is gratifying to learn that this prediction has been fulfilled and several rich pay-chutes have since been developed with a great deal of skill by Mr. Wm. McIntosh, the superintendent of the Royal Oak Mine, and for the year 1902, 4310 tons of ore have yielded the handsome return of 2394 oz. 16 dwts. of gold.