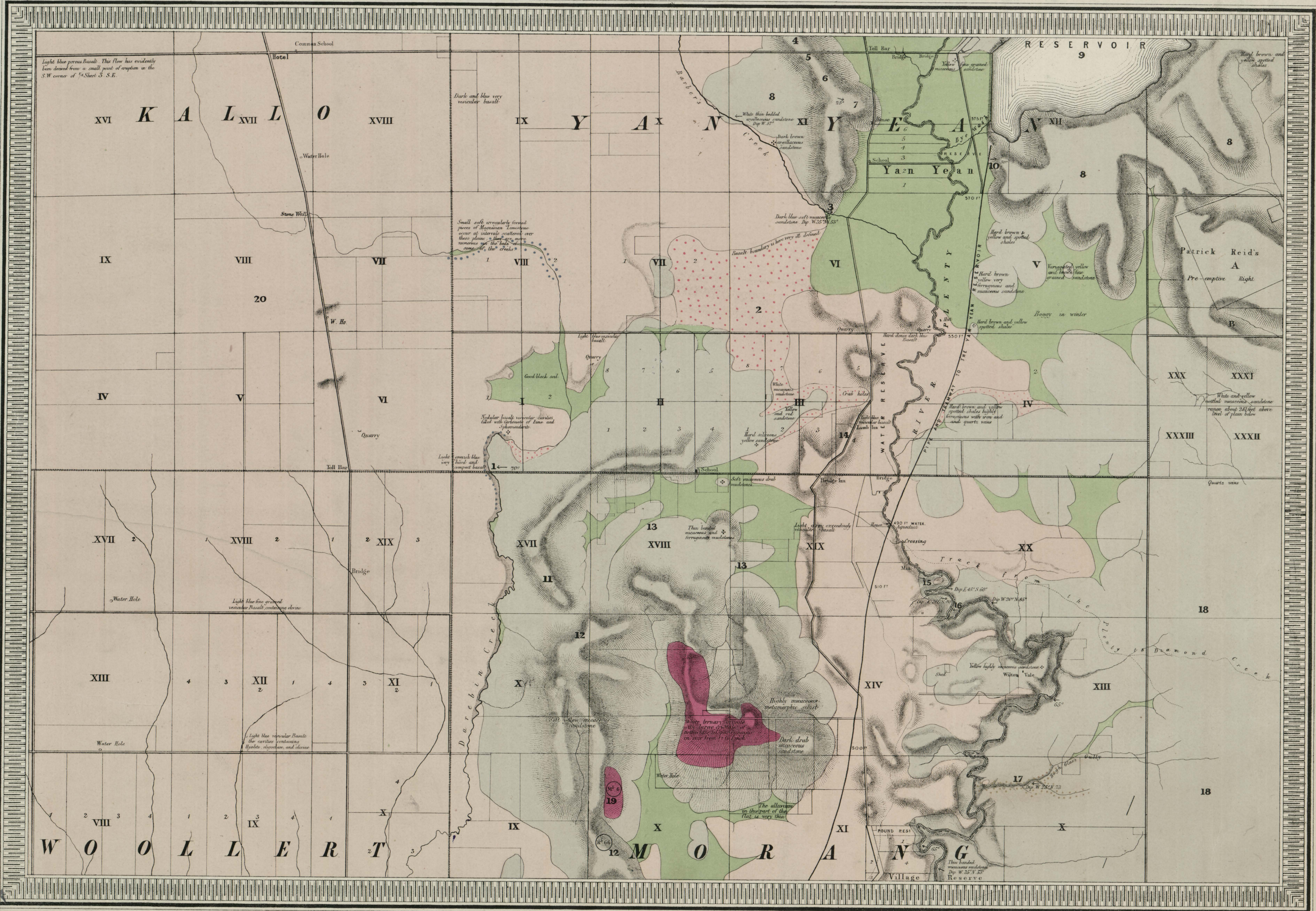


Nº 2

3.S.E.

N.E.



NOTES.

- Note 1.** White and yellow rubby micaceous sandstone; dip W. 20°.
- Note 2.** Between the boundary of the low ranges, forming the Upper Silurian, and the first appearance of basalt in this neighbourhood, small patches of "crab-hole" ground occur, without any visible rock. These generally pass into the ordinary alluvial soil of the gullies, and thus the exact limits of the basaltic rock can seldom be defined from surface examination.
- Note 3.** White fine-grained sandstone, with iron and quartz veins; dip E. 35°, S. 44°.
- Note 4.** Yellow shales, slightly altered, with small quartz veins.
- Note 5.** Hard siliceous yellow sandstone, slightly altered.
- Note 6.** Hard siliceous white and yellow sandstone, with a few quartz veins.
- Note 7.** Hard variegated white and purple micaceous sandstone; dip E. 30°, S. 23°.
- Note 8.** The Upper Silurian ranges in the northern part of this sheet consist of well grassed and timbered gentle rises, with little or no rock showing, and few quartz reefs.
- Note 9.** Yan Yean Reservoir—occupies a valley in the Plenty Ranges, and is formed by an embankment 3,150 feet long, 31 feet high, 170 feet thick at the bottom, tapering to 20 feet in thickness at the top. It occupies an area of 1,440 acres, with a capacity of 25,000,000 cubic yards. The reservoir is fed from a drainage basin of 60 square miles, of a generally steep character. The water near its source is clear and cold, but is somewhat deteriorated by its passage through the swamps at the foot of the Dividing Range. It is conveyed from the River Plenty to the reservoir by an open aqueduct, terminating in a tunnel 1,500 feet in length.
- Note 10.** Dark blue micaceous mudstones, with ferruginous stains, sometimes concretionary, alternating with yellow shales; dip due E. 50°.
- Note 11.** Yellow, purple, mottled sandstone, in places highly ferruginous.
- Note 12.** The whole of the strata forming these two ranges have undergone an immense amount of metamorphism. The beds consist of blue, red, and yellow metamorphic schists. The northern and southern ends are covered with nodules of a dark blue highly metamorphosed rock, weathering brown. As there are no quarries or other openings, the various gradations between this and the softer, or unaltered Silurian, cannot be ascertained.
- Note 13.** The foot of this range of hills is here covered with a surface wash of rounded ferruginous pieces of sandstone.

NOTES.

- Note 14.** Well, at Lamb Inn, about 25 feet deep, dark blue and fine-grained basalt, clear cold water, slightly chalybeate.
- Note 15.** Purple, blue, and yellow, alternating sandstones and shales; dip E. 20°, S. 60°. In places the beds are much twisted.
- Note 16.** Alternating yellow and blue mudstones, with iron veins; dip W. 50°.
- Note 17.** Hugh Glass's Gully.—The lower portion of this gully has been extensively dug from time to time. It contains no alluvium. The deposit appears to be a surface wash, consisting of rounded and semi-rounded fragments of quartz and sandstone. The holes sank averaged from 2 to 10 feet. The rock itself crops out in the bed of the creek as thick banded white micaceous sandstone. The yield of gold averaged about 1 oz. per ton of stuff for the whole gully.
- Note 18.** High and scrubby range of soft white, yellow, and red micaceous sandstone, covered with a good deal of scattered quartz and surface wash. The gullies are deep and narrow, with little alluvium.
- Note 19.** Good tertiary granite quartz, black mica, and felspar: the latter in small proportion, and sometimes of a green colour. Molybdenite and iron pyrites (in crystals and disseminated) occur on the faces of quartz veins running through it; has been quarried for "kettling" purposes.
- Note 20.** The basalt of this neighbourhood (parishes of Kallio and Westbury) in places forms a series of rocky eminences of small dimensions rising above the level of the plain; the interspaces, in many cases, were covered with much soil, forming "crab-hole" ground, locally termed "gale pots." The creeks are shallow, with here and there a little alluvial soil in their banks; none of their beds have cut deep enough to show any drift of older Tertiary age that may underlie it. The whole of the plains are generally well grassed and timbered.

GENERAL NOTE.

The physical features of this sheet vary according to the geological formation. That portion occupied by silurian rocks, principally east of the Plenty River, consists of alternating ranges and gullies, becoming steeper and rougher the farther we go east, with little or no grass and soil. Nearer the river, however, they are lower, and the rock beneath is more covered up with soil. The prevailing trees are white gum (Eucalyptus gomocayx) and stringy bark (E. labronum). Two other smaller schistose patches occur, one on the northern boundary, and the other down the centre of the sheet: these are timbered with white gum and sheoak (Casuarina quadrivalvis). The whole of the western half is occupied by rocky basaltic plains, derived from an extinct crater in the south-west corner of sheet 3 S.E. These plains have numerous creeks intersecting them, and are well timbered with various species of Eucalypt, sheoak, and horse-sheoak (Banksia integrifolia). The principal watercourses are the Plenty River and the Barling Creek; a portion of two watersheds, one formed by the ranges east of the River Plenty, dividing it from the Diamond Creek, and the other separating the former from the Darabin Creek.

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Scale—Two Inches to a Mile.

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