GEOLOGICAL SURVEY OF VICTORIA.

S.W. PART OF BULLA BULLA. PART OF YUROKE PART OF WOLLERT No 2.

7 S.E.

Small patches of impure earthy Carbonate of lime, combined with iron & magnesia occur near the junction of the trap with the underlying granite.

Section line W 25° N.

Woodlands R. Greene Esq.

Quarry Good building stone.

Inverness Inn

Coolkhrands Hill

Quarry Good building stone used for Post Office, Public Offices, Secretary's Office & Town Hall Melbourne.

W 17° N.

Silurian Rocks Highly metamorphosed near the Granite boundary &c.

Very good V.O.I road metal.

Very dusty & friable Basalt. Unfit for road metal.

Hard crystalline Basalt with porphyritic felspar included. V.O.I

Yellow & white argillaceous sandstone, with mottled red, yellow & brown. Ferruginous beds & olive colored arenaceous shales. In some places along the Broadmeadows Creek, from 8 to 10 feet of drift, composed of angular fragments of granite, trap & silurian sandstone rests on the above & passes upwards into soft, highly sandy, friable lithe superficial black quatropola are found on both sides of this rock in the shales.

Broadmeadows Church

Hard crystalline Basalt with porphyritic felspar included. V.O.I

Quarry Rock

Surface covered with from 6 to 8 feet of granitic detritus.

Pliocene Drift T. P°1

Beech Tree Inn

Well sunk through

T. P°1.	Sand.	8 ft
V. I.	Porous & concretionary basalt, with carbonate of lime & magnesia.	40 "
T. P°1 & 2.	White tertiary sand	12 "
	do. do. sand & clay	8 "
V. I.	Hard black basalt.	70 "
S. I.	Pale yellow & white sandstone	140

A constant supply of excellent water.

T. P°1 & 3. Thick bedded brown sandstone

Salt Water River

A great thickness of soil caused by disjunction of the underlying rocks in the valley.

A junction of rocks, which Carbonate of lime, Iron & Magnesia have been deposited in large quantities.

Cherty limestone too hard & impure to be profitably burnt for lime. recent tertiary

Meerri Meerri Creek

The Sydney Road

Swamp

Campbellfield Church

Olive brown argillaceous & micaceous shales with very thin Ironstone veins running parallel with & intersecting the beds. A stratum of Carbonate of lime containing traces of manganese.

S. I. & 3.

Campbellfield Mills

Basalt rests on yellow & grey soft sandy shales.

Shaft & level in basalt.

upper bed nodular & concretionary, with veins of soft earthy carbonate of lime & magnesia; Iron & brick red bed also concretionary.

T. P°1 & 2.

Tank 18 ft deep, through mottled red & white sandy clays.

Tank sunk through red, yellow & white sand & clay with black rounded grains of titanic iron resting on the upper basalt.

Swamp

T. P°1.

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Alluvial — Recent fluviatile & swamp deposits on older rocks — A 1 Sand, A 2 Clay & Mud, A 3 Grael. Recent Gold drift.

Newer Pliocene — Marine & Freshwater — Flemington & Upper Brighton beds — Middle Gold drift — T P° 1 Sandy beds, T P° 2 Clay & Mud, T P° 3 Gravel & Conglomerate (Cement)

Upper Silurian — S 1 Sand, S 2 Slate Mudstone & Flags, S 3 Conglomerate

Upper Volcanic (Pliocene) — V 1 Basalt Dolerite, V 2 Anamesite, V 3 Lava, V 4 Ash Conglomerate Breccia &c.

Granite — G 1 Ternary, G 2 Binary, G 3 Quarternary — Quartz Felspar or Hornblende or Quartz Mica & Felspar, Quartz & Mica or Quartz & Felspar, Quartz Mica Felspar & Hornblende or Schorle

Limestone L 1 Tertiary

Older Pliocene — Marine & Freshwater — Brighton beds, Lower Gold drift — T P 1 Sandy beds, T P 2 Clay Shale &c, T P 3 Gravel & Conglomerate (Cement)

Scale — Two Inches to a Mile. 80 Chains, 40, 0, 40, 80, 120, 160 Chains, 2 Miles; 800 Perches, 400, 200, 0, 400, 800, 1200, 1600 Perches

Lower Volcanic (Pliocene) — V 1 Basalt Dolerite, V 2 Anamesite, V 3 Lava, V 4 Ash Conglomerate Breccia &c.

Dip & Strike of Cleavage + Horizontal beds 4 Dip ↓ General Dip of undulating beds 'S Bed contorted in all directions —— Perpendicular beds longest line the Strike ↕ Anticlinal line ⟊ Synclinal line Locality and mark of Specimen in the Museum (No 10) Volcanic hills and Points of eruption

Deposit of sand, clay & gravel of the age of the upper Gold drift "Diluvial" or Post Pliocene occur at intervals along the course of all the valleys. These deposits are frequently cut through & redistributed by existing river action, during floods forming Alluvial. A 1, 2, 3. Recent Gold drifts.

MD 2. (c)