

SYMBOL LEGEND

Shallow mine workings; single pit/line of workings

... Sandstone, fine to medium grained

Mine tailings heap (battery "sands")

Cleavage orientation; inclined/vertical [69]
Hornfels, spotted slate and quartzite m m

Excursion locality number

Bedding form line (section only)

Underground mine workings (section only)

Alluvial diggings, operator named where known

.... - - - - - Sandstone, coarse to very coarse grained ...

TOPOGRAPHY

State Forest boundary

Contours (10 metre interval) ..

Parish boundary

SAINT ST

LOCALITY DIAGRAM

PLEISTOCENE

PLIOCENE

MIOCENE

OLIGOCENE

EOCENE

PALAEOCENE

UPPER

UPPER

DEVONIAN

Nonconformity

Nonconformity

Major Deformation

Yapeenian

Shepparton Formation Qs

Calivil Formation

White Hills Gravel

SUPERGROUP

Perched fluviatile gravel deposits: pebble and cobble gravel, pebbly sandstone to clay-rich sandstone, and siltstone, lenticular bedding, generally moderately sorted and consolidated, ferruginised conglomerate layers frequently form hard 'caps'. Clasts composed of vein quartz, sandstone, slate and occasionally granite. Mining has partially or totally removed some deposits.

Perched fluviatile gravel deposit, cobble and boulder gravel and ferruginised conglomerate, poorly to moderately sorted, mainly rounded vein quartz clasts. Minirig has removed most of the deposit.

Granodiorite and adamellite, grey, medium grained, equigranular, includes aplitic and

Sandstone, fine to very coarse grained, with interbedded siltstone and shale; quartz-rich, turbiditic, marine. Colour varies from grey to yellow-brown in sandstone and siltstone and grey-green to purple in shale. Original sedimentary structures well preserved, sandstones are frequently graded, amalgamated and cross-bedded; minor interbedded black shale rich in fossil graptolites; rare thin-bedded silicified limestone. Shale and siltstone has been converted to slate by regional lower greenschist facies metamorphism.

Jd Lamprophyre dykes, grey-green, fine grained, porphyritic (rock relationship diagram only).

GEOLOGY

Geological boundary ...

Geological boundary, concealed

Anticline; position accurate/with plunge ...

Syncline; position accurate/inferred

Stratigraphic younging direction ...

Bedding orientation; inclined/vertical .

Anticline; position inferred

accurate/inferred

Fault; U/D indicate relative movement, up/down: position inferred ____ U____ Shaft .

Strike-slip fault; arrows indicate relative horizontal movement: position

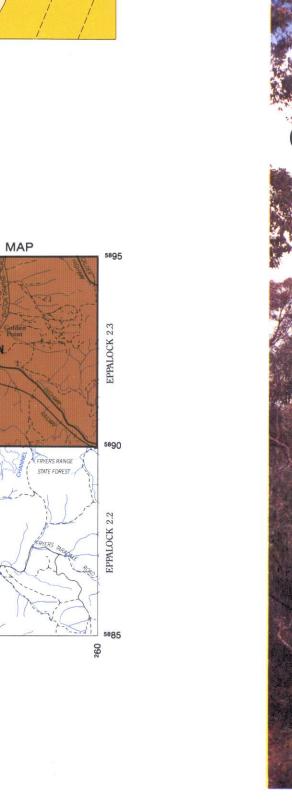
Parasitic fold couple merging into limb of adjacent fold; position

Minor parasitic folds; indicative of a fold hinge

Bedding orientation with younging direction/overturned ...

Bedding orientation with plunge of S_0 - S_1 lineation

Reverse fault; triangles on upthrown side: position accurate/inferred — Fossil locality, with reference number



Geology and compilation: C.E. Willman, 1982-1983 & 1992-1993 Acknowledgements:
Published mapping:
Aplin, C.D.H., & Ulrich, G.,[1860]. Quarter sheet 13 SW. 1 mile to two inches geological map. Geological Survey of Victoria.

Aplin, C.D.H., & Ulrich, G., [1861]. Quarter sheet 14 SE. 1 mile to two inches geological map. Geological Survey of Victoria.

Aplin, C.D.H., & Ulrich, G., 1864. Quarter sheet 15 NE. 1 mile to two inches geological map. Geological Survey of Victoria. geological map. Geological Survey of Victoria.

Baragwanath, W., 1903. The Castlemaine Gold-Field. Geological Survey of Victoria Memoir 2.

Thomas, D.E., 1977. Chewton Goldfield. 8 chains to 1 inch geological map. Geological Survey of Victoria.

Ulrich, G., [1861]. Quarter Sheet 9 NW. 1 mile to two inches geological map. Geological Survey of Victoria. Unpublished mapping: S.F. Cox, 1982 Ceplecha, J.P., 1974. Geology and gold mineralization, Chewton goldfield, Victoria. BSc (Hons) thesis, Monash University, Melbourne. Supervising Geologist, Geological Mapping: P.J. O'Shea, (under C.R. Dalgarno, Director, Geological Survey, 1994) General Manager, Geological Survey: T.W. Dickson. Cartography: S. Wail (1994) Manager, Draughting: J.P. Kinder The base map is Crown Copyright and is reproduced by permission of the Departments of Finance and Conservation and Natural Resources. Published by the Department of Agriculture, Energy & Minerals P.O. Box 2145, MDC Fitzroy, Vic. 3065 © Crown (State of Victoria) Copyright 1995 Reproduction without permission is forbidden Bibliographic reference: WILLMAN, C.E., 1994. Castlemaine goldfield – Castlemaine-Chewton 1:10 000 geological map. Geological Survey of Victoria.

APLIN & ULRICH

MINING COMPANY

Arjav Ajav Ajav Argus Flat Washing Co * Argus Flat Washing Co * Argus Flat Washing Co * Armstrong & Co Armstrong * Bastian Bolivia adit Bouch Brilliant Caledonian Washing Co * Callender Callison * Central No 2 Central Wattle Gully Chewton Chewton Loders Chewton United Clark, G. H. * Coombs Cooper Cox, A. J. * Cox, A. G. * Cumberland Cumberland Hydraulic Sluicing * Daly Eb. J. * **

Ely, J. *
Endall, J. *
Endall, J. *
Energetic
Englishman
Eureka
Eureka Syndicate
Eureka Vineyard
Fairbairn
Fairbairn
Fairbank
Fermange
Forest Creek Hydraulic Dredging (& Sluicing) *
Forest Creek Wattle Gully
Forest Creek Wattle Gully (north shaft) (Welcome)
Forest Creek Wattle Gully (south shaft)
Fould

Lloyd Malstow Martin McBull, W. (South Golden Point Dredging?) *

McBull, W. (South Golden Point Dredg: McDonald & Hooper Meyer & Co Morris & Wilson Moscript Mumby & Co New Francis Ormond (Upper Barkly) North Caledonia North Chewton Prospecting North Quartz Hill North Wattle Gully Penna & Co Phillips Phillips Phoenix Post Office Hill (south shaft) Powell Py Pieu/Pi Uhe *

Smyth, W.F.
South Ajax
South Quartz Hill
South Quartz Hill (prospecting shaft)
South Republic
South Wattle Gully No. 1 shaft (Teague)
South Wattle Gully No. 2 (Old Wattle Gully)
South Wattle Gully No. 3 (Waterhouse)
Southern Cross (Priors)

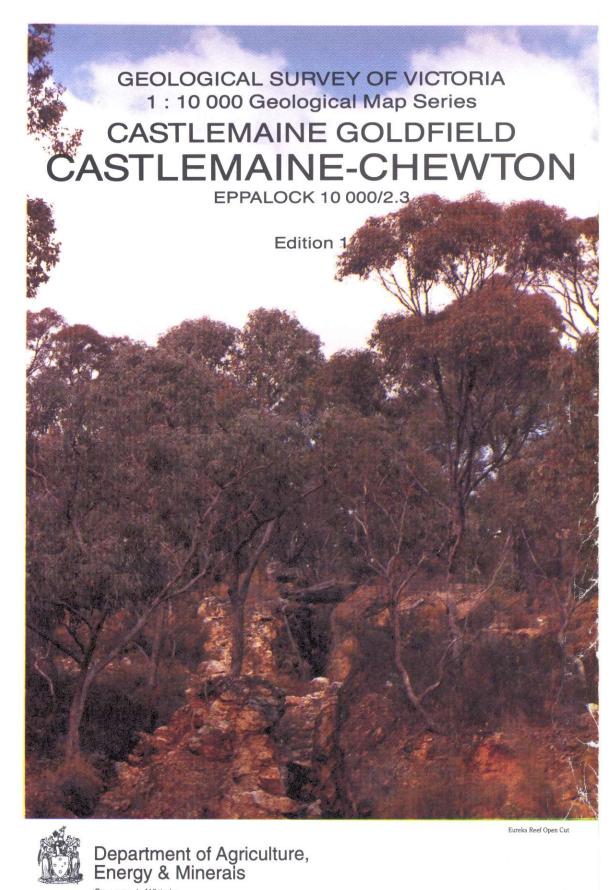
Terrill
Thompson
Trewartha adit
United Dinah Flat Dredging *
Van Heurck, M. *
Walker & Co
Walker & Co
Walker & Co
Walker & Co
Walker (Crown)
Wattle Gully
Wattle Gully Extended

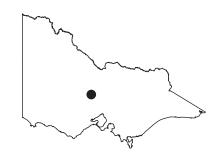
Note: * denotes an alluvial gold mining company, all other listed names are quartz mines.

The prefix ''?'' against a quartz mine name on the map indicates its main shaft cannot be positively identified although the area of operation is known.

LOCALITIES OF INTEREST

APLIN & ULRICH





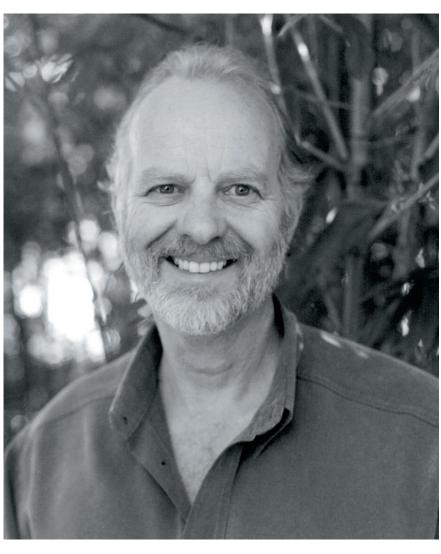
Castlemaine-Chewton & Fryers Creek 1:10 000 geology (1994)

The Geological Survey reintroduced detailed mapping of key goldfield areas at 1:10 000 scale in the 1980s.

Clive Willman's maps of the Castlemaine-Chewton and Fryers Creek goldfields use coloured bands to indicate different rock layers. The boundaries between layers were determined by examination of rock structures in the field (in much the same way as Willman's 19th-century counterparts had done), as well as from information conveyed by graptolite fossils about the layers' relative age.

In the eastern part of both maps, a dramatic geological change is apparent, coinciding with an absence of gold workings.

These two maps were the last produced by pre-digital cartographic methods.



Clive Willman