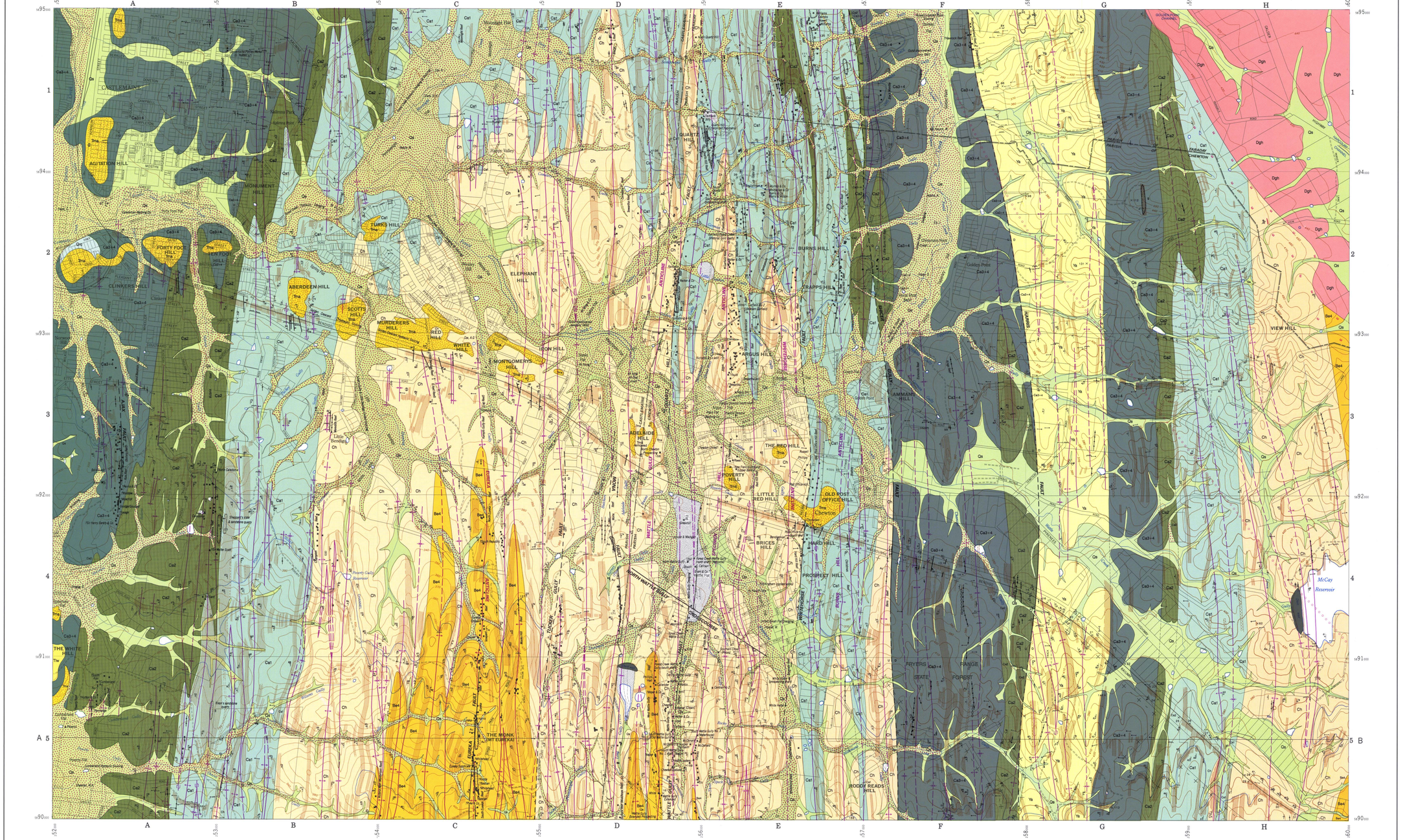
CASTLEMAINE GOLDFIELD - CASTLEMAINE-CHEWTON

VICTORIA 1 : 10 000 | GEOLOGICAL SURVEY OF VICTORIA | EPPALOCK 10 000/2.3



MINING COMPANY

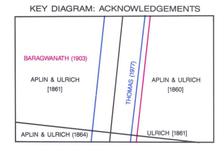
	GRID SQUARE REFERENCE
Adams, A. *	F2
Ah Hung *	D3
Ah Jung *	D3
Ah Wing & Co *	D3
Ah Sue *	D3
Ah Toy	D3
Aigus Flat Washing Co. *	E3
Aigus Hill	E3
Armstrong & Co	D2
Armstrong *	A4
Bastian	C5
Bendigonian	E4
Bolina adit	D4
Bouch	A4
Brainard	A4
Caledonian Washing Co. *	A2
Callender	D5
Calnan *	D4
Central No 2	E5
Central Wattle Gully	D5
Chewton	D5
Chewton Lodes	D5
Chewton Options	D5
Chewton United	E3
Clark, D.H. *	C1
Coombs	E1
Cooper	C4
Cox, A.J. *	C1
Cox, A.G. *	C1
Cumberland	A5
Cumberland Hydraulic Sluicing *	A5
Daly	D3
Ely, J. *	F2
Endell, J. *	F2
Energetic	D2
Englishman	E2
Eureka	C5
Eureka Syndicate	C4
Eureka Wrexand	C4
Fairbairn	G2, D5
Fairbairn	E1
Fermange	A5
Forest Creek Hydraulic Dredging (& Sluicing) *	C1, D2, B2
Forest Creek Wattle Gully	D4
Forest Creek Wattle Gully (north shaft) (Welcome)	D4
Forest Creek Wattle Gully (south shaft)	D5
Francis	E3
Francis Ormond	E3
Francis Ormond (north shaft)	E3
Frank, C. *	F2
Fraser, D. *	F2
Garfield (forest Creek (Victoria) Gold Reefs)	E2
Garfield No 2 (Madam Garfield)	E2
Golden Crescent Hydraulic Sluicing *	B2, D2, C3
Golden Point Dredging *	F1, F2
Golden Gordon*	D4
Grant & Co	D4
Greenish	D4
Hall	D5
Harris	C5
Harris & Co	E2 *
Hawkrock Reef Co	F1
Hooper, W. *	E4
Hosking, G. *	C3
Hudson	E3
Hutton & Co	A5
Hydra *	B3
Jolly	E1
Jurizen & Madgen *	D4
Kitto	D4
Lewis *	C3
Lowell *	D3
Mayo	A5
Mellow	D5
Martin	D5
McBuit, W. (South Golden Point Dredging?) *	F2
McDonald	D5
McDonald & Hooper	D5
Myer & Co	D5
Morris & Wilson	E2
Mullen	E3
Murray & Co	E3
New Francis Ormond (Upper Banks)	E3
North Caledonia	B3
North Chewton Prospecting	D3
North Quartz Hill	D1
North Wattle Gully	D4
Perrie & Co	A3
Phillips	D5
Phillips	D5
Phoenix	A5
Post Office Hill	E3
Post Office Hill (south shaft)	E4
Powell	E3
Py Pauffi Ung *	E4
Pyke & Co	C5
Reed & Co (Enterprise/Chapmans)	E3
Reed, W. *	C1
Richards & Co adit	E3
Robbs	C5
Russell	E3
Russell's Golden Point Sluicing	F1
Savage	A4
Scott's Gully & Little Bendigo United Sluicing	B3
Sherrard, V.A.	A5
Sir Henry Barkly	B4
Sir Henry Barkly & Co	A4
Sir Walter Scott	B4
Smyth, W.T. *	D3
South Alan	A5
South Quartz Hill	E2
South Quartz Hill (prospecting shaft)	E2
South Reynolds	D3
South Wattle Gully No. 1 shaft (Tagart)	D5
South Wattle Gully No. 2 (Old Wattle Gully)	D5
South Wattle Gully No. 3 (Waterhouse)	D5
Southern Cross (Prices)	E4
Tagart	D5
Terrill	D5
Thompson	E4
Thwaites	E3
Thwaites adit	E3
United Chum Tat Dredging *	E4
Van Heurck, W. *	F1
Walker & Co	G2
Walker & Co	E2
Walker & Co (1862)	D5
Walker (Owen)	D5
Wattle Gully	D5
Wattle Gully Dredging *	D4
Wattle Gully Extended	D5
Wattle Gully Extended Prospecting	D5
White	D5
White Horse	E5
White Horse (prospecting shaft)	E5
Whitehead, J.	C5
Whitehead	C5
Whitelaw & Co	E1
Williams	E1
Wilcock	D4

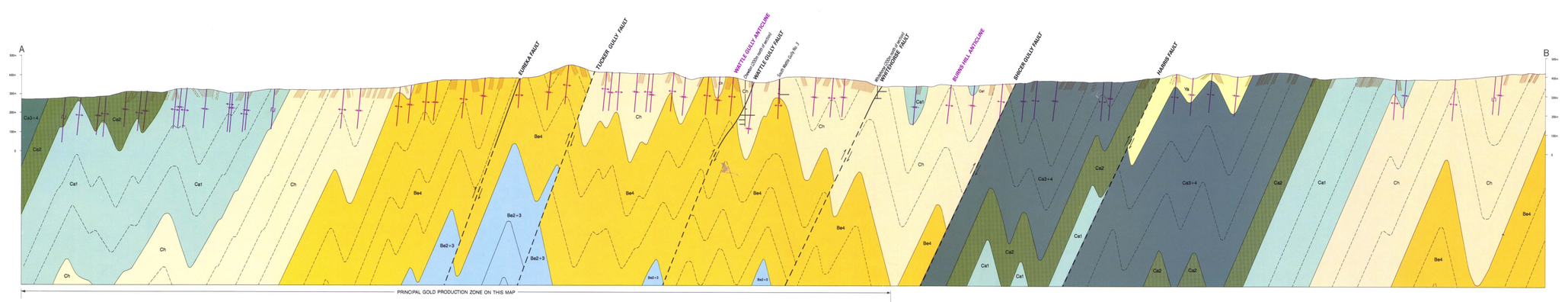
Note: * denotes an alluvial gold mining company, all other listed names are quartz mines.
The prefix "?" against a quartz mine name on the map indicates its main shaft cannot be positively identified although the area of operation is known.

LOCALITIES OF INTEREST

	Grid Square Reference
① "The Anticlinal Fold" – a south plunging anticline in Castlemaine Supergroup	A1
② Calivil Formation gravel	A1
③ Castlemaine Supergroup exposed by sluice mining; showing folds, bedding-parallel veins and faults	C3
④ Massive quartz associated with faulting in the Quartz Hill open cut gold workings	E1
⑤ Folded Castlemaine Supergroup sandstone package	E5
⑥ Wattle Gully Goldmine – operating mine (public entry prohibited but can be viewed from roadside)	D5

KEY DIAGRAM: ACKNOWLEDGEMENTS





SECTION SCALE

Horizontal Scale: 1:10 000
Vertical Scale: 1:10 000

RESPONSIBILITIES AND ACKNOWLEDGEMENTS

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.
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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. Wall (1994)
Manager, Draughting: J.P. Kinder

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STRATIGRAPHIC LEGEND

PERIOD	Age in millions of years	EPOCH	STAGE	SEDIMENTARY: Marine	SEDIMENTARY: Non-marine	IGNEOUS: Intrusive
QUATERNARY	0.1	RECENT			Alluvial Colluvial	
	1.8	PLEISTOCENE			Qs, Qrc	
TERTIARY	5.0	PLIOCENE				
	22.5	MIOCENE				
	36.0	OLIGOCENE			Tma	
	55.0	EOCENE				
	65.0	PALAEOCENE			Tlw	
Nonconformity						
JURASSIC	144	UPPER				
	163				Jd	
Nonconformity						
DEVONIAN		UPPER				Dgh
Major Deformation						
ORDOVICIAN	476	LOWER	Yapeenian		Ya	
			Castlemainian Zone 3 + 4		Ca3+4	
			Castlemainian Zone 2		Ca2	
			Castlemainian Zone 1		Ca1	
			Chewtonian Zone 1+2		Ch	
			Bendigonian Zone 4		Be4	
	487		Bendigonian Zone 2+3		Be2+3	

Qrc — *Colluvium, hillwash deposit; gravel, sand and clay, moderately to poorly sorted, unconsolidated. Derived mainly from Tma.*

Shepparton Formation — Qs — *Gully alluvium, unconsolidated, original terracing and layering largely destroyed by mining. Undisturbed areas consist of imbricated pebble and cobble gravels overlain by pebbly sand and clay.*

Calivil Formation — Tma — *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.*

White Hills Gravel — Tlw — *Perched fluviatile gravel deposit, cobble and boulder gravel and ferruginised conglomerate, poorly to moderately sorted, mainly rounded vein quartz class. Mining has removed most of the deposit.*

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

Harcourt Granodiorite — Dgh — *Granodiorite and adamellite, grey, medium grained, equigranular, includes aplitic and pegmatitic dykes*

CASTLEMAINE SUPERGROUP

Ya, Ca3+4, Ca2, Ca1, Ch, Be4, Be2+3 — *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.*

SCALE 1:10 000

METRES 500 400 300 200 100 0 0.5 1.0 KILOMETRE

AUSTRALIAN MAP GRID — TRANSVERSE MERCATOR PROJECTION
HORIZONTAL DATUM — AUSTRALIAN GEODETIC DATUM 1966

CONTOUR INTERVAL 10 METRES
VERTICAL DATUM — AUSTRALIAN HEIGHT DATUM

SYMBOL LEGEND

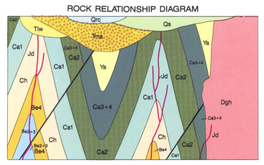
GEOLOGY

- Geological boundary
- Geological boundary, concealed
- Bedding trend showing dip (after Thomas, 1977)
- Reverse fault; triangles on upthrown side: position accurate/inferred
- Fault; U/D indicate relative movement, up/down: position inferred
- Strike-slip fault; arrows indicate relative horizontal movement: position accurate/inferred
- Anticline; position accurate/with plunge
- Anticline; position inferred
- Syncline; position accurate/inferred
- Parasitic fold couple merging into limb of adjacent fold; position accurate/inferred
- Minor parasitic folds; indicative of a fold hinge
- Stratigraphic younging direction
- Bedding orientation; inclined/vertical
- Bedding orientation with younging direction/overturned
- Bedding orientation with plunge of S_0-S_1 lineation
- Cleavage orientation; inclined/vertical
- Quartz vein
- Sandstone, fine to medium grained
- Sandstone, coarse to very coarse grained
- Siltstone and shale
- Fossil locality; with reference number — ×170
- Shaft
- Adit — 2000
- Shallow mine workings; single pit/line of workings — e
- Open cut; gold mine — Au
- Slate quarry
- Mullock heap
- Mine tailings heap (battery "sands")
- Underground mine workings (section only)
- Alluvial diggings, operator named where known — Golden Point Dredging
- Excursion locality number — ①
- Bedding form line (section only)
- Approximate limit of contact metamorphism
- Hornfels; spotted slate and quartzite — m m

TOPOGRAPHY

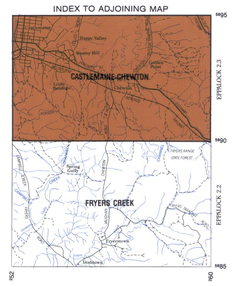
- Road, street, road reserve — SAINT ST
- Vehicular track
- Railway line
- State Forest boundary
- Parish boundary
- Parish name — CHEWTON
- River, stream
- Water channel, drain
- Dam
- Water race — RACE
- Contours (10 metre interval) — 430

ROCK RELATIONSHIP DIAGRAM



LOCALITY DIAGRAM

INDEX TO ADJOINING MAP

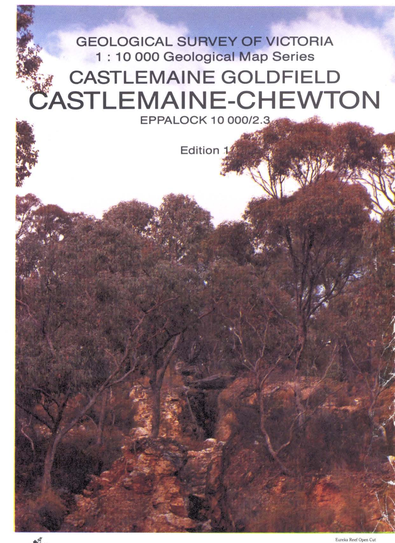


GEOLOGICAL SURVEY OF VICTORIA
1 : 10 000 Geological Map Series

CASTLEMAINE GOLDFIELD
CASTLEMAINE-CHEWTON

EPPALOCK 10 000/2.3

Edition 1



Eureka Reef Open Cut

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