CASTLEMAINE GOLDFIELD - FRYERS CREEK

GEOLOGICAL SURVEY OF VICTORIA

VICTORIA 1 : 10 000

EPPALOCK 10 000/2.2

1:10 000 GEOLOGY SHEETS
CASTLEMAINE GOLDFIELD
FRYERS CREEK

MINING COMPANY

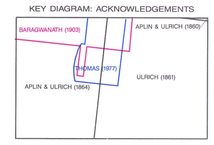
	GRID SQUARE REFERENCE
Ah Sing & Co *	D3
Anglo-Australian (east shaft)	C3
Anglo-Australian (prospecting shaft)	C3
Anglo-Australian (west shaft)	D3
Baker & Moyer	D1
Black Hawk	E5
Black Hawk No 2	D5
Black Hawk No 3	D5
Blacksmith Gully Extended	E2
Blacksmith Gully United	E2
Bowering & Co	E4
Bridges & Co	D1
Burdett Coutts	E5
Caffrey (main adit)	D4
Caffrey (whim shaft)	D4
Central Mattie Gully	D2
Chapel Hill	B5
Chinamans	C2
Cornish & Spanish (lessee)	C3
Cumberland	D5
Dalgarno	D3
Dalphine	D1
Davis	C1
Duke Of Cornwall (Duckers)	D4
Ellis & Co *	B5, C4
Erie	C2
Fenzies	E3
Fiery Cross *	E5
Fryer's Creek Dredging *	B5, C5
Fryers	E5
Grigor'd & Co	A3
Gluth, Henry	D1
Golden Age Hydraulic *	D3
Golden Gully	E3
Golden Rose Tribute	B2
Great Unknown	E1
Hand of Friendship	C3
Hands Across the Sea	D4
Kabat, Feira	A4
Kelly, W *	E4
Lanes	D4
Lindsay	C2
Little Nuggety	A2
McDonald & Wilson	B4
McDonalds Reef	B3
Middlesex	D1
Mitchell & Co	E1
Mullock shaft	C2
New Era	E3
New Mattie Creek	D4
Nightingale & Co	B1
North Blacksmith Gully	E2
North Middlesex	D1
North Spring Gully	C2
Nuggety	A1
O Shaughnessy	A2
Olsen, E	D4
Parsons & Co *	B5
Pennevenne	D4
Pinchard & Co	C3
Pioneer Claim	D4
Point & Co	C1
Quick, A	D1
Rathbone	C3
Reis	E2
Reisbaance (South Mattie Gully)	E3
Rowe & Co	E3
Rowe (machinery shaft, 1897)	D4
Rowe (south shaft)	D4
Rowe's Monopolist	D4
Royal Saxon	E2
Schemeden	E1
Shannon	C2
Sinclair, E &	D3
Small (Enterprise)	D4
Somerset	D1
South Blacksmith Gully	E2
South Eureka	C3
South Spring Gully	C3
Spring Gully	C2
Spring Gully (prospecting shaft)	C2
Spring Gully Central (Spring Gully (north shaft))	C2
Spring Gully Dredging *	C4
Spring Gully Junction	C2
Spring Gully No 2	C2
Sun & Co	B2
Thompson	E2
Thomson, W	D1
Tonkin & Co *	B5
Twomey & Co	C1
Mattie Gully United	E1
White Horse	D5
Windsor Hill Gold Mining *	D5

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 Sluiced exposure of Castlemaine Supergroup showing folds, faults, cleavage and sedimentary structures	B5
② Old Red Hill crosscourse in Castlemaine Supergroup	B5
③ Calivil Formation gravels exposed in open pit	B5
④ Fryers Creek Battery (steam engine, steam pump engine house built 1868 (on private property but can be viewed from roadside)	D4
⑤ Folded Castlemaine Supergroup sandstone package	G5
⑥ Shepparton Formation alluvium exposed in eroded gully – undisturbed by mining	G3
⑦ Terraces in Shepparton Formation, Gaarn Gully	H1

KEY DIAGRAM: ACKNOWLEDGEMENTS



RESPONSIBILITIES AND ACKNOWLEDGEMENTS

Geology and compilation: C.E. Willman, 1982–1983 & 1992–1993

Acknowledgements:
Published mapping:

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.
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Ceplecha, J.P., 1974. Geology and gold mineralization, Chewton goldfield, Victoria. BSc (Hons) thesis. Monash University, Melbourne.

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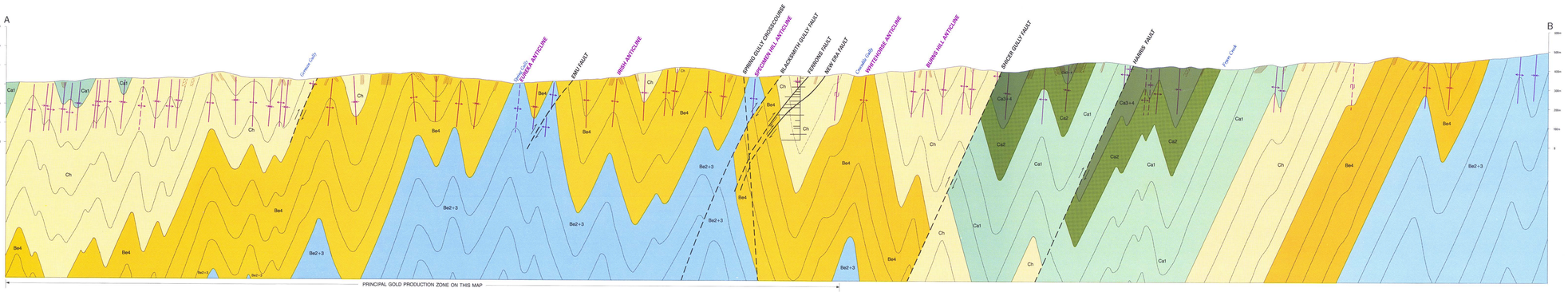


SECTION SCALE

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

STRATIGRAPHIC LEGEND

PERIOD	Age in millions of years	EPOCH	STAGE	SEDIMENTARY: Marine	SEDIMENTARY: Non-marine	IGNEOUS
QUATERNARY	0.1	RECENT			Qrc	
	1.8	PLEISTOCENE			Qs	
TERTIARY	5.0	PLIOCENE				
	22.5	MIOCENE				
	36.0	OLIGOCENE			Tma	
	55.0	EOCENE				
	65.0	PALAEOCENE				
Nonconformity						
JURASSIC	144	UPPER				Jd
	163					
Major Deformation						
ORDOVICIAN	475	LOWER	Yapeenian			Ya
			Castlemainian Zone 3 + 4			Ca 3 +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 deposits; gravel, sand and clay, moderately to poorly sorted, unconsolidated. Derived mainly from Tma. Mining has modified some colluvial aprons.*

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 gravels, 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.*

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

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 have 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

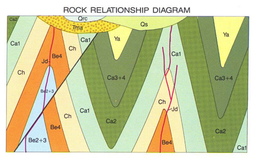
GEOLOGY

- 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 youngring direction
- Bedding orientation; inclined/vertical
- Bedding orientation with youngring direction/overturned
- Bedding orientation with plunge of S_0-S_1 lineation
- Cleavage orientation; inclined/vertical
- Sandstone, fine to medium grained
- Sandstone, coarse to very coarse grained
- Siltstone and shale
- Fossil locality, with reference number
- Quartz vein
- Shaft
- Adit
- Shallow mine workings; single pit/line of workings
- Open cut; gold mine
- Slate quarry
- Mullock heap
- Mine tailings heap (battery "sands")
- Underground mine workings (section only)
- Alluvial diggings, operator named where known
- Excursion locality number
- Bedding form line (section only)

TOPOGRAPHY

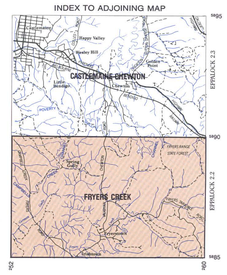
- Road, street, road reserve — TARADALE
- Vehicular track
- Railway line
- State Forest boundary
- Parish boundary
- Parish name — FRYERS
- River, stream
- Water channel, drain
- Dam
- Water race — RACE
- Contours (10 metre interval) — 450

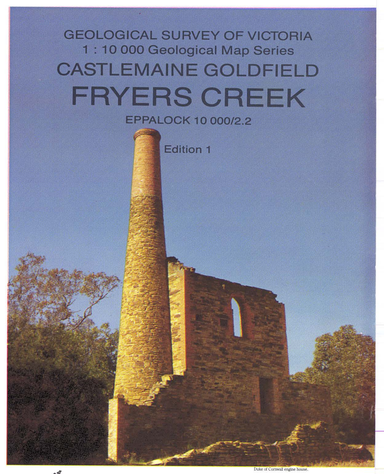
ROCK RELATIONSHIP DIAGRAM



LOCALITY DIAGRAM

INDEX TO ADJOINING MAP





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Edition 1

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