

UR1986\_60

**1986/60. Correlation of coal seams in north-eastern Tasmania.**C. A. Bacon  
C. R. Calver**Abstract**

The stratigraphic sections of the Mount Nicholas, Fingal, and Dalmayne areas were compared and sections drawn illustrating the relative stratigraphic positions of the coal seams in each area, using data from drilling done by the Department of Mines, the Cornwall Coal Company, and the Shell Company of Australia.

**SEAM CORRELATION**

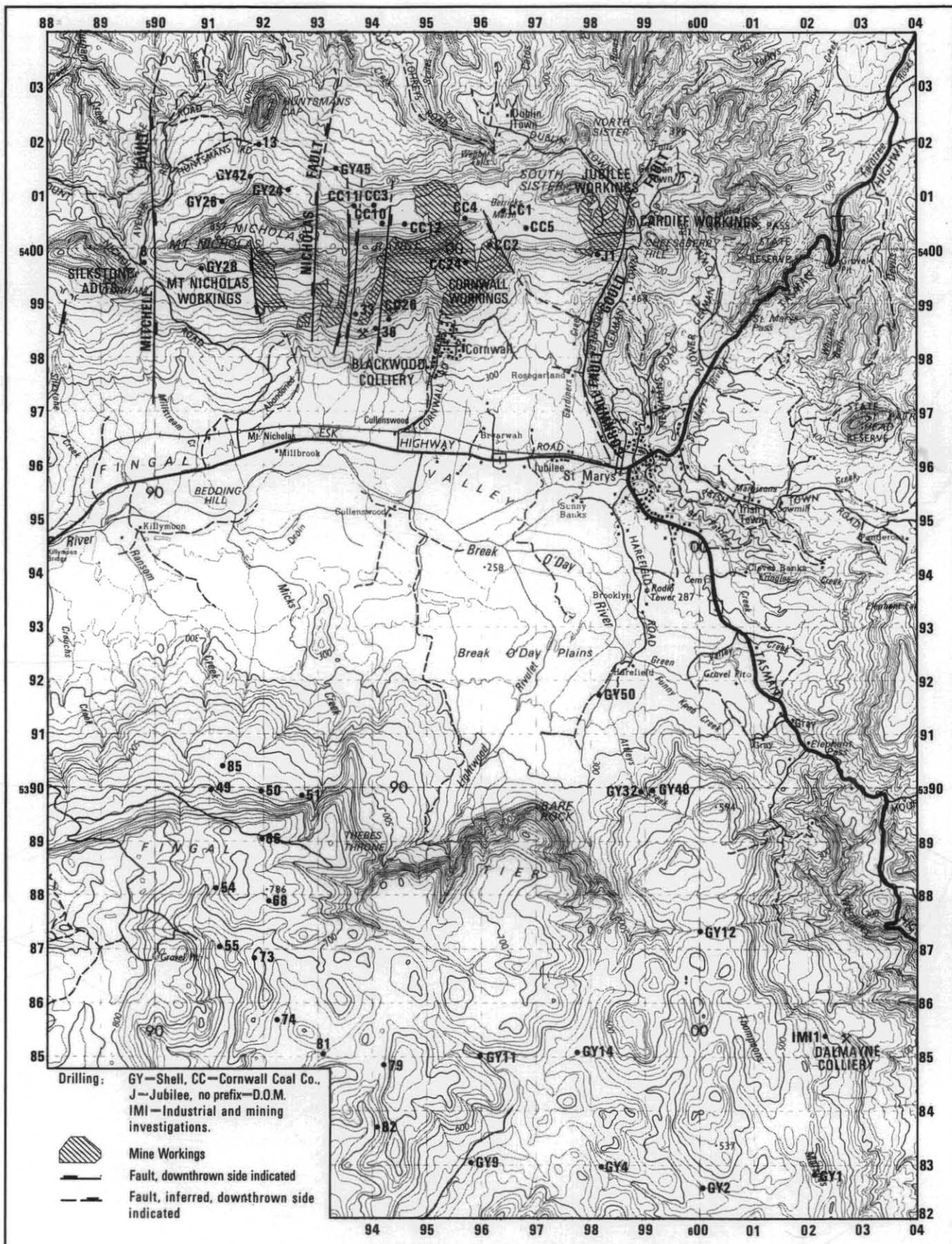
To compare the stratigraphic sections and relationships of the coal seams in the areas of Fingal Tier, Dalmayne, and Mount Nicholas, a series of sections were drawn within and between the areas. The results are summarised in the four diagrams (fig. 1 to 4). In many cases individual seams cannot be traced for great distances, but the position of each seam relative to seams in adjacent areas can still be noted. The locations of various drill holes used in the diagrams are shown on Figure 5.

**MOUNT NICHOLAS**

There are three groups of seams on Mount Nicholas. The Upper Seams are largely interbedded mudstone, carbonaceous mudstone, and thin coal and are not of any economic interest. The Middle Seams extend across the whole range, although individual seams split and lens out. The Blue Upper Seam thins dramatically to the east.

The Cornwall Seam is thickest in the central part of the Nicholas Range, thinning to the west. To the east the Cornwall seam splits, and is known as the Jubilee Seam at the Jubilee Colliery and the Cardiff Seam at the Cardiff open cut. The Cullenswood Seam is not present in the western part of the Nicholas Range.

The lower group of seams is represented by seams L1 and L2 in the western part of the Nicholas Range. These are equivalent to the Millbrook and Fenton Seams in the central and eastern parts of the range. These two seams (L1 and L2) coalesce in places to produce a thicker combined seam. Towards the east, the interval of Lower Seams consists of four thin seams in total; Millbrook, Fenton, Malahide and Webber Falls. The latter two seams are not present in the western part of the range.



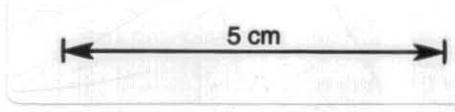
### LOCATION OF DRILL HOLES FOR N. E. TASMANIA COAL SEAM CORRELATIONS



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Figure 5.





HAREFIELD

The Harefield seams are the equivalent of the East Fingal Seam upper and lower splits (Gu, Gl) on Fingal Tier and the Lower Seams on Mount Nicholas.

MOUNT NICHOLAS	HAREFIELD	FINGAL TIER
L1 ----- Millbrook -----	DE -----	GU
L2 ----- Fentons -----	DE2 -----	GL
Malahide -----	DE3	-
Webber Falls -----	DF -----	{Ha} intermittent
	DG	{Hb}

CONCLUSIONS

A summary correlation table is given below. Where seams cannot be traced between coalfields due to lensing and facies changes, the stratigraphic position can still be seen in relation to other seams.

FINGAL TIER	DALMAYNE	HAREFIELD	MOUNT NICHOLAS	
DOM	Shell	Shell	Shell	Cornwall
	DA			
A				
B	DB			
C	DC			
D	DC1			
-----				
E	DDU		M1	Blue Upper
mudstone	DDL		M2	Blue
-	-	-	M3	Cornwall
-	-	-	-	Cullenswood
-----				
F	mudstone	-	-	-
(Duncan)				
Gu	DE	DE	L1	Millbrook
(East Fingal Upper)				
Gl -----	DE2 -----	DE2 -----	L2 -----	Fenton
(East Fingal Lower)				
Ha}	-	DE3	-	Malahide
} intermittent		DF	-	Webber Falls
Hb}		DG	-	

[17 September 1986]

5 cm

# DIAGRAMMATIC CROSS SECTION THROUGH THE MT NICHOLAS RANGE

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VERTICAL SCALE:-  
0 10 20 30 40 50m

HORIZONTAL SCALE :- Varied

### LEGEND

- QUATERNARY**
    - Alluvium, talus
  - JURASSIC**
    - Dolerite
  - TRIASSIC-PERMIAN**
    - Sandstone
    - Lutite
    - Conglomerate
    - Coal
    - Basalt
    - Glaciomarine mudstone
- UPPER  
PARMEENER SUPER-GROUP  
LOWER

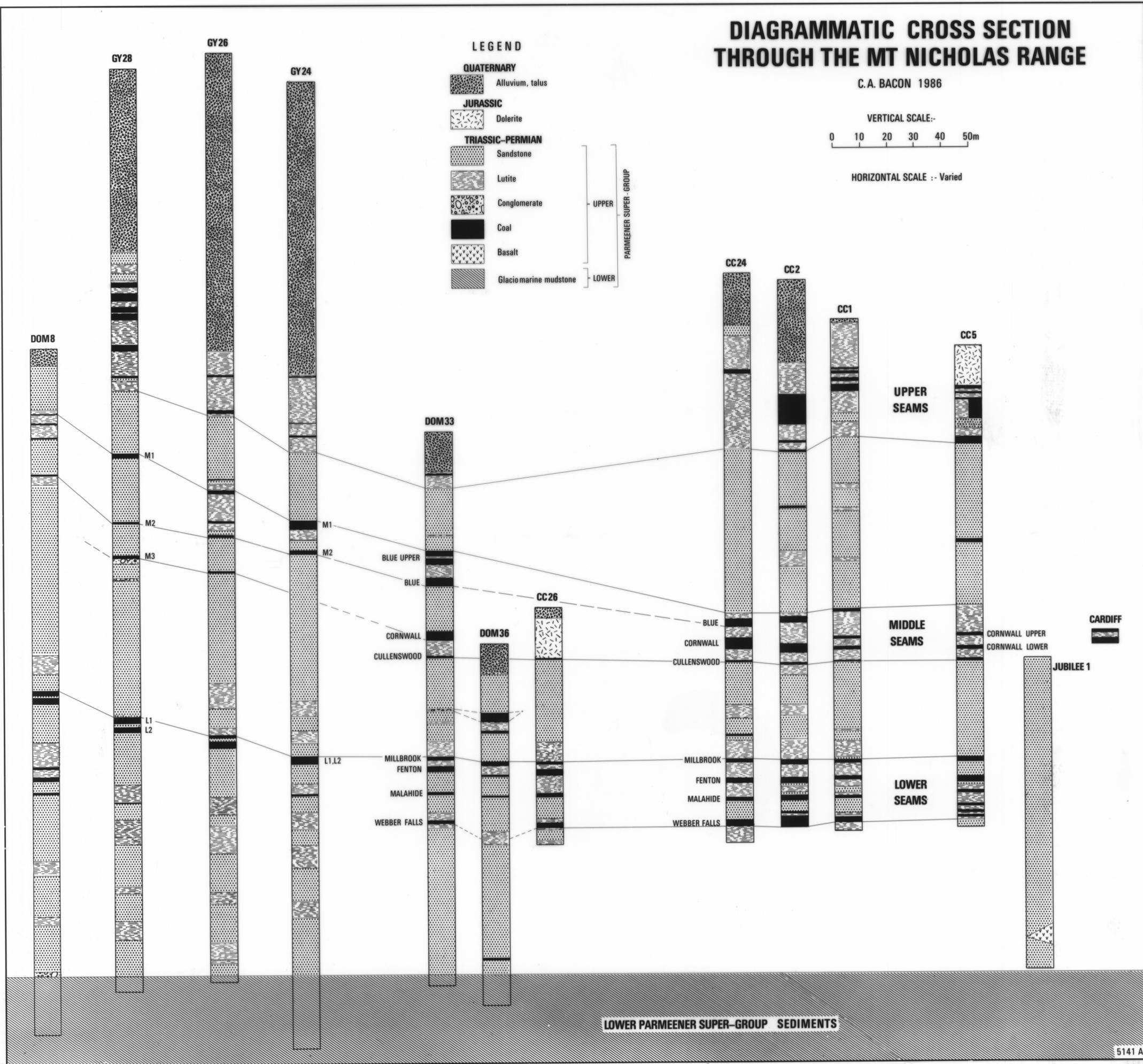


Figure 23

5 cm

### DIAGRAMMATIC CROSS SECTION MT NICHOLAS

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VERTICAL SCALE  
0 10 20 30 40 50m

HORIZONTAL SCALE :- Varied.

- QUATERNARY**  
Alluvium, talus
  - JURASSIC**  
Dolerite
  - TRIASSIC - PERMIAN**
    - Sandstone
    - Lutite
    - Conglomerate
    - Coal
    - Glaciomarine mudstone
- UPPER  
 PARMEENER SUPER - GROUP  
 LOWER

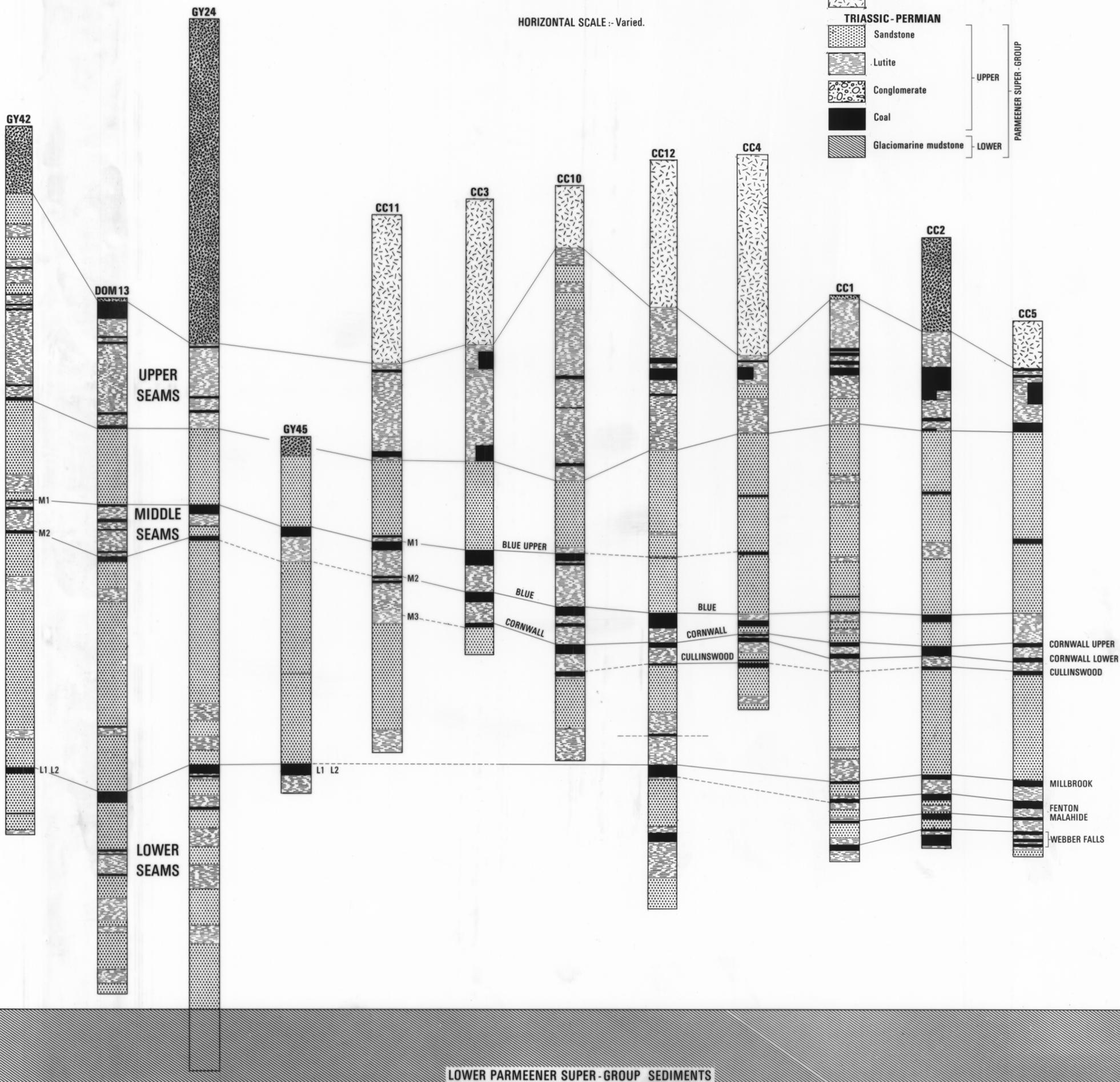


Figure 22

5 cm

# DIAGRAMMATIC CROSS SECTION: FINGAL TIER TO DALMAYNE

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VERTICAL SCALE: 0 10 20 30 40 50m

HORIZONTAL SCALE: varied

### LEGEND

- QUATERNARY**
    - Alluvium, talus
  - JURASSIC**
    - Dolerite
  - TRIASSIC-PERMIAN**
    - Sandstone
    - Lutite
    - Conglomerate
    - Coal
    - Basalt
    - Glacio marine mudstone
- UPPER  
PARMEENER SUPER-GROUP  
LOWER



Figure 25

5 cm

# DIAGRAMMATIC CROSS SECTION FINGAL - HAREFIELD - DALMAYNE - MT. NICHOLAS

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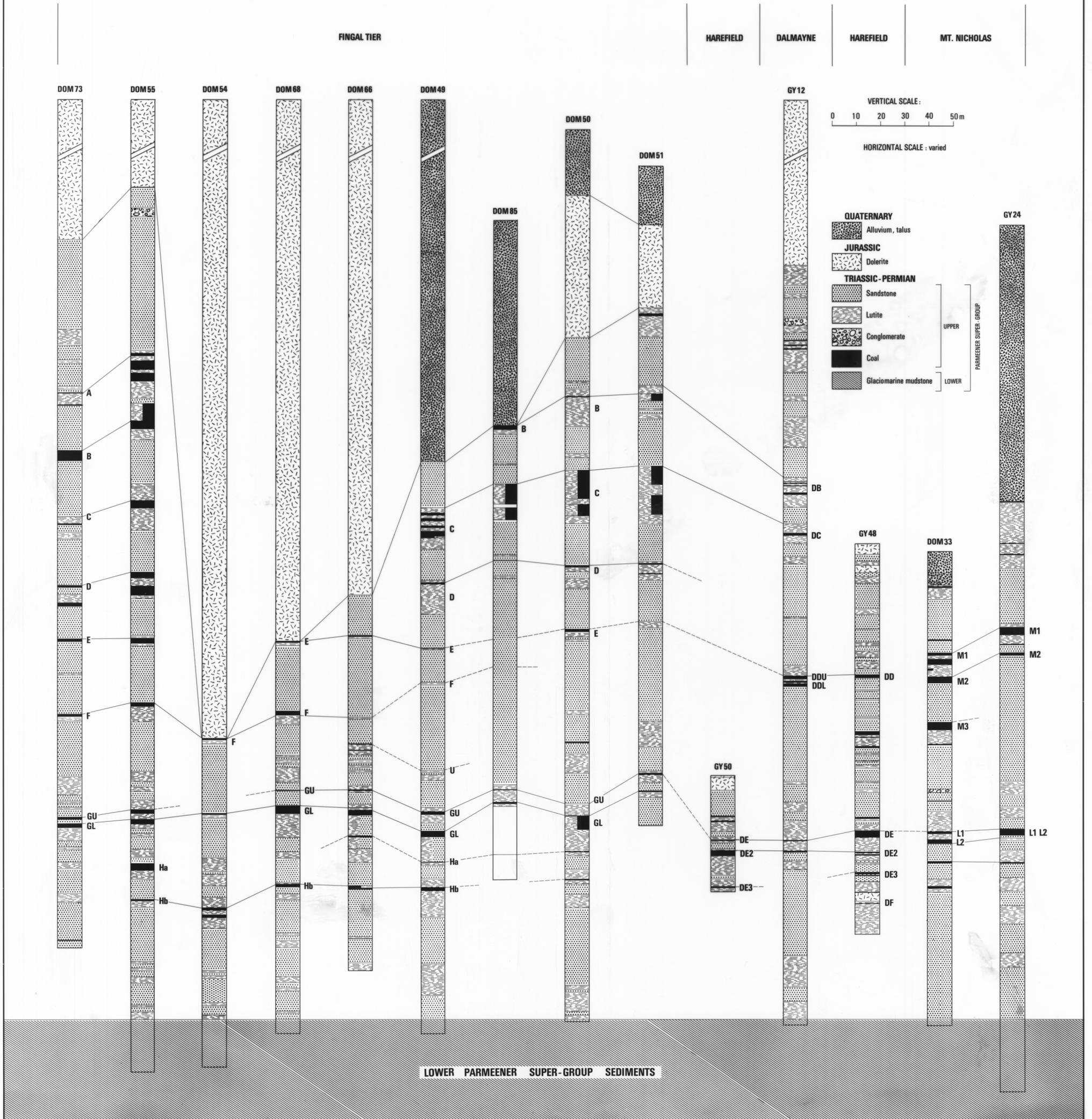


Figure 24