

Geology of the Andover area: Concealed strata - Permian

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Permian strata are absent from wells but have been interpreted from seismic sections to be present in the west. The strata, as described in the neighbouring Devizes district explanation (**Booth et al., 2011**)^[1], comprise interbedded, red, micaceous mudstone and siltstone with rare thin sandstone interbeds. The strata are displayed as an undivided Permo-Triassic unit on the cross-sections on the Andover 50k map.

Stratal thickness table

Key hydrocarbons boreholes and deeper wells in the Andover district and adjacent areas.

Strata	Kingsclere	Egbury 1	Upper Enham 1	Ham 1	Hurstbourne Tarrant	Carnarvon Arms
Borehole number	SU45NE 1	SU45SW 46	SU35SE 23	SU36SW 1	SU35SE 27	SU45NE 3
Grid reference	49840 58200	44484 52364	36598 50430	33100 62470	36032 53500	45720 59450
Palaeogene	Absent	Absent	Absent	Absent	Absent	124.6
White Chalk Subgroup	Absent	170.6	Absent	Absent		12.5+
Grey Chalk Subgroup	Absent	68.4	Absent	18.3	217.6	
Upper Greensand Formation	33.8	70.0	57.7	42.7	62.8	
Gault Formation	86.6	41.0	58.7	84.1	55.5	
Lower Greensand Group	13.7	10.5	11.3	4.8	10.4	
Wealden 'Group'	178.9	118.5	127.1	11.0+	125.9	
Purbeck Group	164.3	43.5	53.8		36.3	
Portland Group	43.6	46.0	53.4		50.0	
Kimmeridge Clay Formation	284.4	187.5	203.2		218.2	
Corallian Group	53.6	58.0	57.5		125.0	
Oxford Clay Formation	95.1	117.3	132.7		25.0	
Kellaways Formation	9.1	10.5	14.0		14.0	
Great Oolite Group	85.0	93.9	108.1		61.0	

Inferior Oolite Group	109.4	48.3	75.9	118.3
Lias Group†	360.9+	377.7	495.5	38.4+
Penarth Group		9.3	28.5+	
Permo-Triassic		Absent		
Ordovician to Carboniferous		29.0+		

Notes: †The Lias Group undivided encompasses the old divisions of Lower, Middle and Upper Lias. Modern terminology that can be applied to the strata encountered in these boreholes is discussed on the Jurassic page.

References

1. [↑](#) Booth, K A. 2001. Geology of the Wherwell-Bullington district, Hampshire. British Geological Survey Technical Report, WA/01/08.

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