

V Relief: 1.600 to 1.625 seconds  
Area : 2700 acres

VI Relief: 1.575 to 1.600 seconds  
Area : 1000 acres

The pre-unconformity section at Manatee has been studied and a Dip Rate Map has been constructed. The major basin forming fault and subsidiary down to the east faults are shown. A large faulted domal feature with significant west and north dip is shown to occupy the Manatee I, II and III leads area mapped at the Lower M. diversus seismic horizon level. Its area of closure is 12000 acres. The Manatee IV lead area is shown to be underlain by an eastward tilted horst block. The two separate closures have an area 1000 acres. The Manatee V and VI leads area is a domal feature with an area of closure of 3900 acres.

The seismic time structure map constructed at the top Eastern View Coal Measures, Map 2. shows mostly regional dip, to the east, over the Manatee area. The basin forming fault is recognized locally and so is the Mornington - King Island Fault. A significant reduction in the rate of dip is shown in the area east of the Mornington - King Island Fault. A minor area of closure is shown over the Manatee V lead.

The isochron top Eastern View Coal Measures to Lower M. diversus seismic horizons shows a thickening of the section to the east of the major basin forming fault, Map 6. This isochron interval is mostly not sensitive to the major period of expansion of the section which took place at pre-unconformity time as shown by the Dip Rate Map, Map 8.