

VI.2 CHAT

The Chat prospect was originally recognised on the HB75A-218A line (enclosure 8). In April 1985 a one kilometre grid was shot over the Chat area. The Chat area has been remapped, using new and old data at eight levels (see figures 7.1 to 7.10, and enclosures 1.1 to 1.10). Fault-dependent closure at top EVCM, top Paleocene and Upper Paleocene has been confirmed, while Mid. Paleocene to Lower Cretaceous levels have shown no significant closures. A four-way dip closure at the Basement level is off-set to the southeast of the shallower structural closures, and therefore suggests that Mid-Tertiary compression was responsible for re-juvenation of the Chat structure and creation of the Eocene to Upper Paleocene closures.

Tracing of Demon's Bluff shale reflector from the Squid -1 well towards the Chat structure indicates definite thinning of this unit, which was confirmed by modelling (enclosure 1.11). Therefore relying on Demon's Bluff shale for a regional seal should be regarded as high risk.

The Chat -1 well is proposed on seismic line BB85-40 at S.P. 170. Prognosed stratigraphy is shown in figure 7.10. The main objective for drilling the Chat prospect is the Upper Paleocene formation and the secondary objective is the Eocene formation. The areal closures at the top EVCM and the Top and Upper Paleocene are approximately 10 sq km each, and the vertical closures are up to 200 ft each.