

5 SEISMIC MAPPING

5.1 Introduction

The objectives of the seismic interpretation was to produce regional structural maps and hence to identify leads in T/25P that fulfilled the Joint Venture's criteria for economic viability. Identified leads would be detailed during a subsequent 250km seismic program.

A benefit of the interpretation project would be to provide an extensive regional map suite covering most of T/25P. This would be beneficial in the development of play concepts, maturation models etc.

5.2 Interpretation Method

For the purpose of interpretation a Sun Sparc 2 Workstation loaded with Geoquest software was utilised. The interpretation proceeded southwards from an extensive interpretation completed by the Operator in T/18P, although some of this previous interpretation was reworked after the extra data from T/25P had been added.

This flow on from a previous interpretation allowed the key markers identified to be immediately utilised. As all the wells except Pelican 3 had sonic and density logs and checkshot surveys, synthetics were generated on LOGM software and picks were checked manually on paper sections. For Pelican 3 a regional time depth curve was used to transfer tops to the seismic. SAGASCO Resources purchased the Geoquest SYNVIEW (synthetic seismogram) software late in the project, which allowed picks to be reconfirmed. The only useful lithological markers were the top and base of the Demon's Bluff, and all other correlation is based on palynological picks (in particular based on a report by Roger Morgan, 1985).

As previously mentioned a large reprocessing project provided migrations for most of the 1984 and 1985 lines and also the 1980 Pipipa grid (lines overshot by 1992 lines were not reprocessed). Lines only available as stacks were the 1985 lines in the southeast of the permit and the 1977 grid over the Pelican Field. Together with the