

Summary

Following the drilling of the Squid #1 and Squid #1 sidetrack exploratory well, July 16th to August 1st, 1984, the whole of Exploration Permit T-15-P area has been remapped at several stratigraphic levels. This was part of a major seismic mapping effort which covered both of Weaver's Exploration Permit T-15-P and T-16-P areas. All the seismic maps so far generated in this effort are enclosed in this report. So are the representative seismic lines which illustrate each of the prospective structures. For purposes of regional consideration and completeness, the two permit areas are treated as a whole in this report.

The results of a regional seismic data acquisition program carried in the Bass Basin by the Bureau of Mineral Resources has been integrated with the well data and the more recent seismic data acquired by the current permit holders. These results have been presented in the form of maps, representative seismic lines, models, etc. at the Bureau of Mineral Resources, Bass Basin Symposium, held in Canberra last November. The models and concepts generated by the Bureau of Mineral Resources studies are very much in line with our own evaluation of the remaining untested hydrocarbon potential of the Bass Basin.

A new exploration concept for the Paleocene/Cretaceous objective section is presented, illustrated and discussed. This concept was generated by the Bureau of Mineral Resources scientists.

The stratigraphic section found in the Durroon #1 well is described. The sandstone porosity and permeability determinations from whole core and plug samples are listed. The reservoir potential of the objective sandstone section is described. The porosity and permeability measurements are