

SUMMARY

Chronostratigraphic correlations of Paleogene sections in eight wells from the Bass Basin of southeastern Australia have been completed using graphic correlation-Composite Standard methodology. Data for this project were generated by Roger Morgan for Amoco Australia Petroleum Company. The top of the Lygistepollenites balmei zone is shown to be a consistent time equivalent in all wells. Other zonal interpretations by Morgan are diachronous. Differences in relative rates of rock accumulation are shown by the spacing of CSTE units and by the slopes of the Lines of Correlation. As a result of this study, stratigraphic information on the ranges of high latitude southern hemisphere Paleogene palynomorphs have been incorporated in the Corporate Composite Standard.

CONCLUSIONS

1. Palynologic data extracted from range charts generated by Roger Morgan were used for the graphic correlation-Composite Standard technique and have enabled chronostratigraphic correlations in the Paleogene among eight wells in the Bass Basin.
2. The top of the Lygistepollenites balmei zone appears to be the only consistently time-equivalent point in all studied wells.
3. Other interpreted zonal boundaries are shown to be diachronous.
4. Differences in the relative rates of rock accumulation have been shown among the wells.
5. No faults or unconformities were detected in any of the eight Bass Basin wells.
6. Stratigraphic range information on high latitude southern hemisphere Paleogene palynomorphs is now included in the Corporate Composite Standard, providing an internally consistent time framework for future biostratigraphic applications.

RECOMMENDATION

The results from this project should be utilized as a basis for incorporating additional data from southern hemisphere Paleogene sections into this chronostratigraphic correlation network.

INTRODUCTION

This project was undertaken in an attempt to refine subsurface correlations in the Paleogene section of the Bass Basin, offshore southeastern Australia. The study includes rocks of Eocene and Paleocene age assigned to the Demon's Bluff Formation and the upper half of the Eastern View Coal

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