

BASS BASIN MARINE GEOCHEMICAL SURVEY FINAL REPORT
T/14P AND T/18P BASS BASIN, AUSTRALIA

SURVEY BY: TRANSGLOBAL EXPLORATION AND GEOSCIENCE, INC.
FEBRUARY 1989

D. REGAN

APRIL 1989

LIST OF APPENDICES

1. Operations and Interpretation Report Geochemical Exploration Program
Bass Basin, Blocks T/14P, T/18P
By: Transglobal Exploration & Geoscience, Inc.
February 1989 *REFER TPR OR-161A*
2. Data Printout, Bass Basin Blocks T/14P and T/18P
REFER TPR OR-161B
3. Maps of Measured Hydrocarbons, Bass Basin Blocks T/14P and T/18P
REFER TPR OR-161C

INTRODUCTION

In February 1989, Transglobal Exploration and Geoscience, Inc. (TEG) of San Diego, California conducted a proprietary marine geochemical survey in the Bass Basin over licenses T/14P and T/18P for the T/14P and T/18P partnerships. A total of 2,100 kilometers of survey were conducted consisting of 5,090 light hydrocarbon analyses.

RESULTS

Data for each of the light hydrocarbon analyses is provided in profile plot and crossplot format (Appendix 1), in printout format (Appendix 2) and map format (Appendix 3) in TEG's report. Anomalous hydrocarbons in the water column were not detected in any portion of the T/14P and T/18P Bass Basin survey area, including over the Yolla structure. The measured hydrocarbon levels were consistent with normal marine background levels.

In addition to the results of the T/14P and T/18P survey, included in TEG's report are crossplots of data from TEG's Gippsland Basin Survey (Appendix 1). These data are provided for comparison to the T/14P and T/18P survey data. TEG conducted the Gippsland Survey in February 1989 as a research exercise with the Bureau of Mineral Resources.

INTERPRETATION

The interpretation of the marine geochemical survey results in T/14P and T/18P is that there are no significant hydrocarbon accumulations in the survey area, including at Yolla (in spite of reserves estimates), as no significant leakage at the sea floor of any subsurface reservoired hydrocarbons in the survey area were detected. Due to the fact that TEG made daily calibration checks of their equipment and that significant anomalies were detected over the Gippsland Basin, the survey results are determined to be valid.