

BALEEN-1

Location: Offshore Gippsland Basin
 Latitude: 38 00 36.63 S
 Longitude: 148 26 08.40 E

Water Depth = 54.89 m
 Total Depth Drilled (KB) = 1030 m
 KB Elevation = 9.45 m amsl
 Seismic line reference: GB81-31, sp 300

Completed November 30, 1981 by Hudebay Oil (Australia) Ltd.
 Status = Plugged & abandoned, gas discovery

Lithostratigraphy by Tom Bernecker (1998)
 Lithological interpretation by Natalia Liberman (1998)
 Palynology by W.K. Harris (1981)
 Produced by the Basin Studies Group 05-Jun-2000



Lithological legend

- | | | |
|-----------------------------|---------------------------------|-------------------------------|
| Carbonate Lithotypes | Siliciclastic Lithotypes | Others |
| Limestone | Conglomerate | l'bedded sandstone & mudstone |
| Limestone, sandy | Sandstone, pebbly | Siltstone |
| Limestone, dolomitic | Sandstone | Mudstone (shale) |
| Dolomite | Sandstone, calcareous | Mudstone, calcareous |
| Dolomite, calcareous | Sandstone, argillaceous | Claystone |
| Marl | Sandstone, glauconitic | Coal |
| | "Greensand" | |

Accessory minerals legend

- C - carbonaceous debris
 P - pyrite
 G - glauconite
 M - mica
- Arrowheads indicate SWC range & abundance
 Patterns indicate cuttings/core range & abundance
- | | |
|-------|----------|
| trace | common |
| minor | abundant |

Pristane/Phytane Legend

- < 1.5 Anoxic - Subaqueous (lacustrine or marine)
 1.5 - 3.0 Trans - Transitional environment
 > 3.0 Oxidic - Subaerial environment

Palynological scheme legend

- SPORE-POLLEN:**
- | | |
|-------|-------------------------------------------|
| T. be | = T. bellus |
| P. tu | = P. tuberculatus |
| N. as | = N. asperus |
| P. as | = P. asperopolus |
| M. di | = M. diversus |
| L. ba | = L. balmei |
| F. lo | = F. longus |
| T. li | = T. lilliei |
| N. se | = N. senectus |
| T. ap | = T. apoxyxinus |
| P. ma | = P. mawsonii |
| H. un | = H. uniforma (A. di = A. distocarinitus) |
| P. pa | = P. pannosus |
| C. pa | = C. paradoxa |
| C. st | = C. striatus |
| C. hu | = C. hughesii |
| P. no | = P. notensis |
| F. wo | = F. wonthaggiensis |
| C. au | = C. australiensis |
| R. wa | = R. watheroensis |
- DINOFLAGELLATES:**
- | | |
|-------|---------------------|
| C. in | = C. incompositum |
| D. he | = D. heterophlycta |
| A. hy | = A. hyperacantha |
| A. ho | = A. homomorphom |
| E. cr | = E. crassitabulata |
| T. ev | = T. evittii |
| M. dr | = M. druggii |
| I. ko | = I. korojenense |
| X. au | = X. australis |
| N. ac | = N. aceras |
| I. ro | = I. rotundatum |
| I. cr | = I. cretaceum |
| O. po | = O. porifera |
| C. st | = C. striatoconus |
| P. in | = P. infusorioides |

Palynologists' environments legend

- | | |
|------------------|-----------------------|
| nm - non marine | mm - marginal marine |
| lac - lacustrine | ns - nearshore marine |
| est - estuarine | om - offshore marine |
- N.B. Environments are based on spore-pollen/dino ratios.

Hydrocarbon shows/tests legend

- Gas show (weak)
 - Gas show (strong)
 - Gas zone
 - Oil show (weak)
 - Oil show (strong)
 - Oil zone
 - Oil/gas show (weak)
 - Oil/gas show (strong)
 - Oil fluorescence
 - CO₂ zone
 - RFT test
- N.B. Not all hydrocarbon symbols in the legend have been used in this wellsheet.

