

# TRITON-1

Location: Offshore Otway Basin  
 Latitude: -38.9818487 S  
 Longitude: 142 31 48.94 E

Water Depth = 100 m  
 Total Depth Drilled (KB) = 3545 m; Depth logged (KB) = 3526 m  
 KB Elevation = 21 m amsl  
 Seismic line reference: OE80A-1039, sp 2570

Completed May 1, 1982 by Esso Australia Ltd  
 Status = Plugged & abandoned

Lithostratigraphy by Geoff Geary (1998)  
 Lithological interpretation by Natalia Liberman (1998)  
 Palynology by R. Morgan (1992)  
 Produced by the Basin Studies Group 04-Jun-2000



Department of Primary Industries

## Lithological legend

- |                             |                                 |                   |
|-----------------------------|---------------------------------|-------------------|
| <b>Carbonate Lithotypes</b> | <b>Siliciclastic Lithotypes</b> | <b>Others</b>     |
| Limestone                   | Conglomerate                    | Extrusive rocks   |
| Limestone, sandy            | Sandstone, pebbly               | Mafic sills       |
| Limestone, dolomitic        | Sandstone                       | Plutonic rocks    |
| Dolomite                    | Sandstone, calcareous           | Metamorphic rocks |
| Dolomite, calcareous        | Sandstone, argillaceous         |                   |
| Marl                        | Sandstone, glauconitic          |                   |
|                             | "Greensand"                     |                   |
|                             |                                 | Coal              |

N.B. Not all lithological patterns in the legend have been used in this wellsheet.

## Palynological scheme legend

- SPORE-POLLEN:**
- T. be = T. bellus
  - P. lu = 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. apocyninus
  - P. ma = P. mawsonii
  - H. un = H. uniformis (A. di = A. distocarinus)
  - P. pa = P. pannosus
  - C. pa = C. paradoxus
  - 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:**
- W. th = W. thompsonae
  - C. in = C. incompositum
  - H. ta = H. tasmanense
  - D. ha = D. heterophlyctia
  - A. hy = A. hyperacantha
  - A. ho = A. homomorphum
  - E. cr = E. crassitabulata
  - T. sv = T. svetovidovi
  - P. py = P. pyrophorum
  - M. dr = M. drougii
  - K. au = K. australis
  - N. ac = N. aceres
  - I. ko = I. korjenense
  - I. ro = I. rotundatum
  - N. cr = N. cretaceum
  - O. po = O. porifera
  - C. st = C. striatococcus
  - R. in = R. infusoroides
- N.B. Not all palynological zones in the legend have been used in this wellsheet.

## 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
  - CO<sub>2</sub> zone
  - RFT test
- N.B. Not all hydrocarbon symbols in the legend have been used in this wellsheet.

## Accessory minerals legend

- C - carbonaceous debris
  - P - pyrite
  - G - glauconite
  - M - mica
- Arrowsheads indicate SWC range & abundance  
 Patterns indicate cuttings/core range & abundance

## Pristane/Phytane Legend

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

## Palynologists' environments legend

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

