

# SNAIL-1

Location: Offshore Otway Basin  
 Latitude: 38 53 50 S  
 Longitude: 144 18 02 E

Water Depth = 81.07 m  
 Total Depth Drilled (KB) = 1234.7 m; Depth logged (KB) = 1234.74 m  
 KB Elevation = 9.75 m amsl  
 Seismic line reference: ER-50; sp 8800

Completed December 8, 1972 by Haematite Petroleum Pty. Ltd.  
 Status = Plugged & abandoned

Lithostratigraphy by Basin Studies (1999)  
 Lithological interpretation by Natalia Liberman (1998)  
 Palynology by M.K. Macphail (1989)  
 Produced by the Basin Studies Group 19-May-99 for Enclosure 4, VIMP 60



## 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"                     |                   |
|                             | I'bedded sandstone & mudstone   |                   |
|                             | Siltstone                       |                   |
|                             | Mudstone (shale)                |                   |
|                             | Mudstone, calcareous            |                   |
|                             | Claystone                       |                   |
|                             | Coal                            |                   |

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

## 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. balmel                                |
| F. lo | = F. longus                                |
| T. li | = T. lilliei                               |
| N. se | = N. senectus                              |
| T. ap | = T. apoxyxinus                            |
| P. ma | = P. mawsonii                              |
| H. un | = H. uniformis (A. di = A. distocarinatus) |
| 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:**

|       |                     |
|-------|---------------------|
| W. th | = W. thompsonae     |
| C. in | = C. incompositum   |
| H. ta | = H. tasmanianse    |
| D. he | = D. heterophlycta  |
| A. hy | = A. hyperacantha   |
| A. ho | = A. homomorphom    |
| E. cr | = E. crassitabulata |
| T. ev | = T. evittii        |
| P. py | = P. pyrophorum     |
| 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  |

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      |
|  | CO2 zone              |
|  | RFT test              |

N.B. Not all hydrocarbon symbols in the legend have been used in this wellsheet.

## 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.

