

MINERVA-1

Location Offshore Otway Basin
 Latitude 38 42 12.23S
 Longitude 142 57 12.34E
 Water Depth = 56.7 m
 Total Depth Drilled (KB) = 2425 m
 KB Elevation = 25.3 m amsl
 Seismic line reference OE81A-2028, sp 2232
 Completed 8-Mar-1993 by BHP Petroleum
 Status = Gas well - cased & suspended
 Lithostratigraphy by Geoff Geary (1998)
 Lithological interpretation by Natalya Liberman (1998)
 Palynological data confidential
 Produced by the Basin Studies Group 07-Apr-1998
 for Enclosure 29, VIMP55



Lithological legend

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

Palynological scheme legend

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

Hydrocarbon shows legend

| |
|-----------------------|
| Gas show (weak) |
| Gas show (strong) |
| Gas well |
| Oil show (weak) |
| Oil show (strong) |
| Oil well |
| Oil/gas show (weak) |
| Oil/gas show (strong) |
| Oil fluorescence |

S/W core - recovered

| Dino/Spore-pollen legend | |
|--------------------------|-----------|
| absent | moderate |
| very low | high |
| low | very high |

Accessory minerals legend

| | | |
|---|-------|----------|
| C - carbonaceous debris (magenta) | trace | common |
| S - shell debris (blue) | minor | abundant |
| G - glauconite (green) | | |
| M - mica (red) | | |
| arrows indicate SWC range & abundance | | |
| patterns indicate cuttings/core range & abundance | | |

Palynological environments legend

| | |
|--------------------------------|------------------------------|
| non mar. - non marine environ. | marg. mar. - marginal marine |
| lac. - lacustrine environment | nearshore - nearshore marine |
| estu. - estuarine | offshore - offshore marine |

Pristane/Phytane Ratio legend

| |
|-------------------------------------|
| Aqu - Aqueous, lacustrine or marine |
| Int - Intermediate |
| Ter - Terrestrial |

