

NORTH_EUMERALLA_1

Location: OTWAY BASIN
 Latitude: -38.1626274 S
 Longitude: 141.8930846 E



Total Depth Drilled (KB) = 2961 m
 KB Elevation = 63.4 m amsl
 Seismic line reference: OPP85A-01 200m E SP 175

Completed by Shell Development 1974
 Status = P&A

Lithostratigraphy by GSV Report VIMP15
 Lithological interpretation WCR
 Palynology by Morgan 1986
 Produced by the Basin Studies Group 25-Oct-2011

Lithological legend

- | | | |
|-----------------------------|---------------------------------|-------------------------------|
| Carbonate Lithotypes | Siliciclastic Lithotypes | Others |
| 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" | |
| | | l'bedded sandstone & mudstone |
| | | Siltstone |
| | | Mudstone (shale) |
| | | Mudstone, calcareous |
| | | Claystone |
| | | Coal |

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 Oxid - 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. apoxyxenus |
| P. ma = P. mawsonii | H. un = H. uniformis (A. di = A. distocarinatus) |
| C. pa = C. paradoxus | C. st = C. striatus |
| C. hu = C. hughesii | P. no = P. notensis |
| F. wo = F. worthaggeniensis | C. au = C. australiensis |
| R. wa = R. wattercoensis | |

- DINOFAGELLATES:**
- | | |
|---------------------------|--------------------------|
| C. in = C. incompositum | D. he = D. heterophlycta |
| A. hy = A. hyperacantha | A. ho = A. homomorphum |
| E. cr = E. crassitabulata | T. ev = T. evittii |
| M. dr = M. druggii | I. ko = I. korogense |
| X. au = X. australis | N. ac = N. aceris |
| I. ro = I. rotundatum | I. cr = I. cretaceum |
| O. po = O. porifera | C. st = C. striatoconus |
| P. in = P. infusonioides | |

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

