

MCEACHERN_1

Location: OTWAY BASIN
 Latitude: -37.56269 S
 Longitude: 141.1918336 E

Total Depth Drilled (KB) = 2384 m
 KB Elevation = 81.13 m amsl
 Seismic line reference: OWM82A-N SP 405
 Completed by GAS AND FUEL EXP 1990
 Status = P&A

Lithostratigraphy by C. Lavin 1996
 Lithological interpretation WCR
 Palynology by Morgan (1991)
 Produced by the Basin Studies Group 25-Oct-2001



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" | |

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. 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. distocarinus)
 - 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. wathercoensis
- DINOFAGELLATES:**
- C. in = C. incompositum
 - D. he = D. heterophycta
 - A. hy = A. hyperacantha
 - A. ho = A. homomorphom
 - E. cr = E. crassitubulata
 - T. ev = T. evittii
 - M. dr = M. druggii
 - I. ko = I. korjenense
 - X. au = X. australis
 - N. ac = N. aceris
 - I. ro = I. rotundatum
 - I. cr = I. cretaceum
 - O. po = O. portiera
 - 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.

Accessory minerals legend

- C - carbonaceous debris
 - P - pyrite
 - G - glauconite
 - M - mica
- Arrowheads 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

