

CAROLINE_1

Location: OTWAY BASIN
 Latitude: -37.939388 S
 Longitude: 140.9079034 E

Total Depth Drilled (KB) = 3386 m
 KB Elevation = 32 m amsl
 Seismic line reference: G-90-01, SP 328

Completed by Alliance Oil Development 1967
 Status = CO₂ Gas Producer

Lithostratigraphy by Caroline 1 WCR
 Lithological interpretation Caroline 1 WCR
 Palynology by Morgan (1986)

Produced by the Basin Studies Group 25-Oct-2001



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" | |
- 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/coring range & abundance

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)
 P.pa = P. pannosus
 C.pa = C. paradoxa
 C.st = C. striatulus
 C.hu = C. hughesi
 P.no = P. notensis
 F.wo = F. wongbaggienensis
 C.au = C. australiensis
 R.wa = R. watheroensis
- DINOFLAGELLATES:**
 C.in = C. incompositum
 D.he = D. heterophlycta
 A.hy = A. hyperacantha
 A.ho = A. homomorphom
 E.cr = E. crassatubulata
 T.ev = T. evittii
 M.dr = M. druggii
 I.ko = I. korjenense
 X.au = X. australis
 N.ac = N. aceras
 I.ro = I. rotundatum
 I.cr = I. cretaceum
 C.po = C. porifera
 C.st = C. striatococcus
 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.*

