

PECTEN-1A

Location Offshore Otway Basin
 Latitude 38 40 41.0S
 Longitude 142 39 56.0E

Total Depth Drilled (KB) = 2850 m
 KB Elevation = 34.15 m amsl
 Seismic line reference EO80A-1020, near sp 3627
 Completed June, 1967 by Shell Australia Ltd.
 Status = Plugged & abandoned
 Lithostratigraphy Geoff Geary (1998)
 Lithological interpretation
 Palynology by Morgan (1986), Partridge (1996)
 Produced by the Basin Studies Group 28-Jul-1998
 For Enclosure 20, VIMP 55



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:**
 T. be = T. bellus
 P. tu = P. tuberculatus
 N. as = N. asperus
 F. as = F. asperoporus
 M. di = M. diversus
 L. ba = L. bairdii
 T. lo = T. longus
 T. li = T. lilliei
 N. se = N. senectus
 T. ap = T. apoxyxenus
 F. ma = F. mawsonii
 A. di = A. distocarinatus
 P. pa = P. pannosus
 C. pa = C. paradoxa
 C. st = C. striatus
 C. hu = C. hughesi
 F. wa = F. worthaggeniensis
 C. au = C. australiensis
 R. wa = R. watheroensis
- DINOFLAGELLATES:**
 C. in = C. incompositum
 D. he = D. heterophycta
 A. hy = A. hyperacantha
 A. ho = A. homomorpha
 E. cr = E. crassitabulata
 T. ev = T. evittii
 M. dr = M. druggii
 I. ko = I. koropenense
 X. au = X. australis
 N. ac = N. aceras
 I. cr = I. cretaceum
 O. po = O. porifera
 C. st = C. striatoconus
 P. in = P. infusorioides

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

Palynological environments legend

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

Pristane/Phytane Ratio legend

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

S/W core - recovered

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

Accessory minerals legend

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

Sonic Log

US/F 40

Lithostratigraphy

Heytesbury Gp (undiff.)
 Narrawaturk Marl
 Mepunga Fm
 Dilwyn Fm
 Pember Mudstone
 Pebble Point Fm
 K/T Boundary Shale Mbr
 Timboon Sandstone
 Paaratte Fm
 Belfast Mudstone
 Flaxman Fm
 Waarre Fm
 Eumeralla Fm

Palynologists palaeoenvironments

lac. lacustrine
 estu. estuarine
 nearshore nearshore marine
 offshore offshore marine

Spore/pollen zones

lw N.as
 up M.di
 lw M.di
 up L.ba
 up F.lo
 T.li
 X.au
 N.se
 T.ap
 O.po
 P.ma
 C.pa
 C.st

Hydrocarbon show/flo

Description

Pris/Phy ratio & Environ

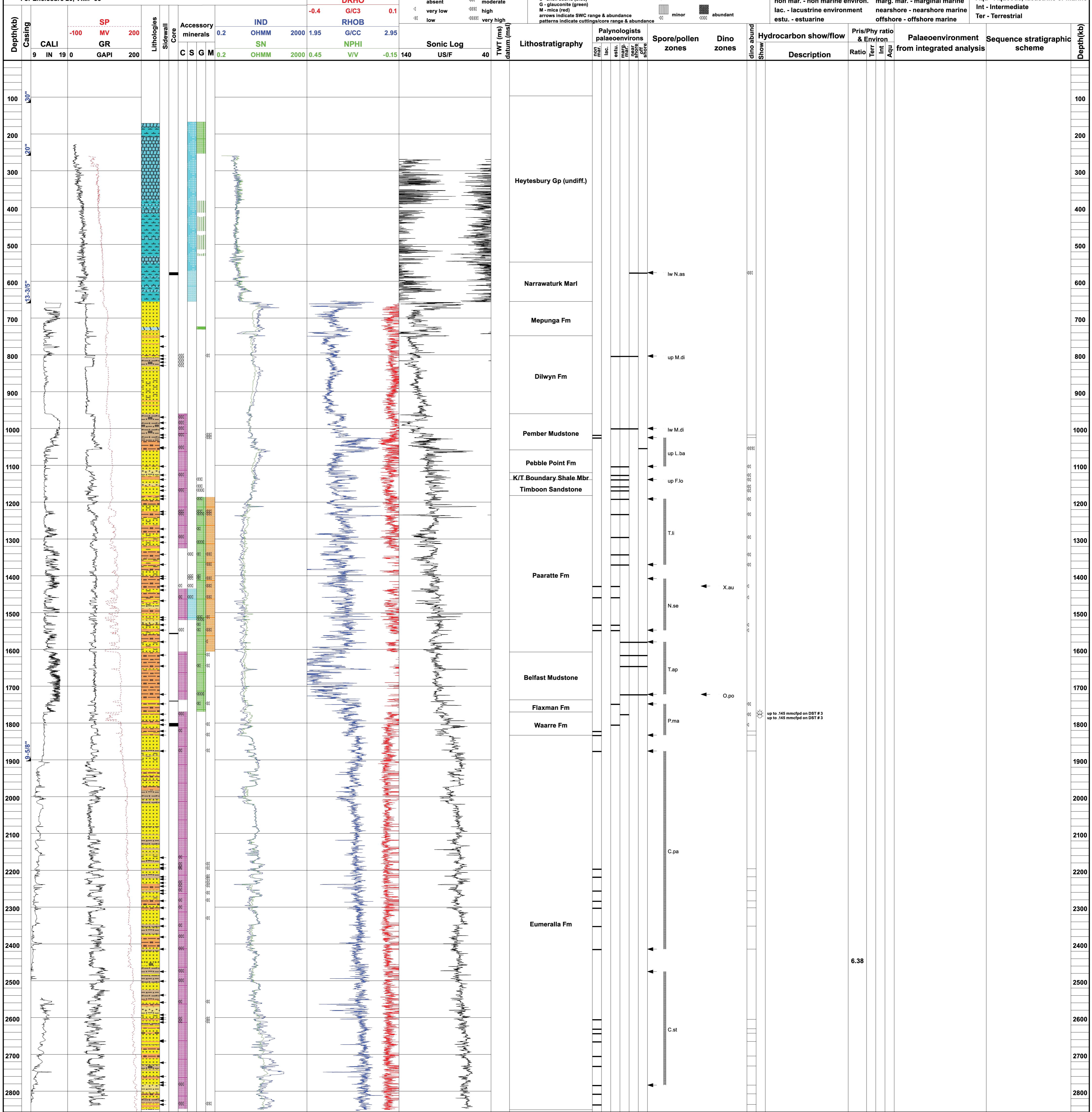
Ratio
 Terr
 Aqu

Palaeoenvironment

from integrated analysis

Sequence stratigraphic

scheme



up to .145 mmcfpd on DST # 3
 up to .145 mmcfpd on DST # 3

6.38