LOCH ARD-1

Location Offshore Otway Basin
Latitude 38 55 54.72S
Longitude 143 10 55.16E
Water Depth = 75 m
Total Depth Drilled (KB) = 1397 m
KB Elevation = 25.3 m amsl
Seismic line reference OH91-205, sp 1490

Completed October, 1993 by BHP Petroleum
Status = Plugged & abandoned
Lithostratigraphy by Geoff Geary (1998)
Lithological interpretation by Natalya Liberman (1998)
Palynology by Morgan (1994), Partridge (1996)
Produced by the Basin Studies Group 11-Mar-1998
for Enclosure_31, VIMP55

State Government Victoria AUSTRALIA — Department of Primary Industries

Lithological legend

Carbonate Lithotypes
- Limestone
- Limestone, sandy
- Limestone, dolomitic
- Dolomite
- Dolomite, calcareous
- Marl

Siliciclastic Lithotypes
- Conglomerate
- Sandstone, pebbly
- Sandstone
- Sandstone, carbonaceous
- Sandstone, argillaceous
- Sandstone, glauconitic
- "Greensand"
- I'bedded sandstone & mudstone
- Siltstone
- Siltstone, carbonaceous
- Mudstone (shale)
- Mudstone, carbonaceous
- Mudstone, calcareous
- Claystone
- Coal

Others
- Extrusive rocks
- Mafic sills
- Plutonic rocks
- Metamorphic rocks

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. apoxyexinus
P. ma = P. mawsonii
H. un = H. uniforma (A. di = A. distocarinatus)
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. watherooensis

DINOFLAGELLATES:
C. in = C. incompositum
D. he = D. heterophylcta
A. hy = A. hyperacantha
A. ho = A. homomorphom
E. cr = E. crassitabulata
T. ev = T. evittii
M. dr = M. druggii
I. ko = I. korojenense
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

S/W core - recovered

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

Accessory minerals legend

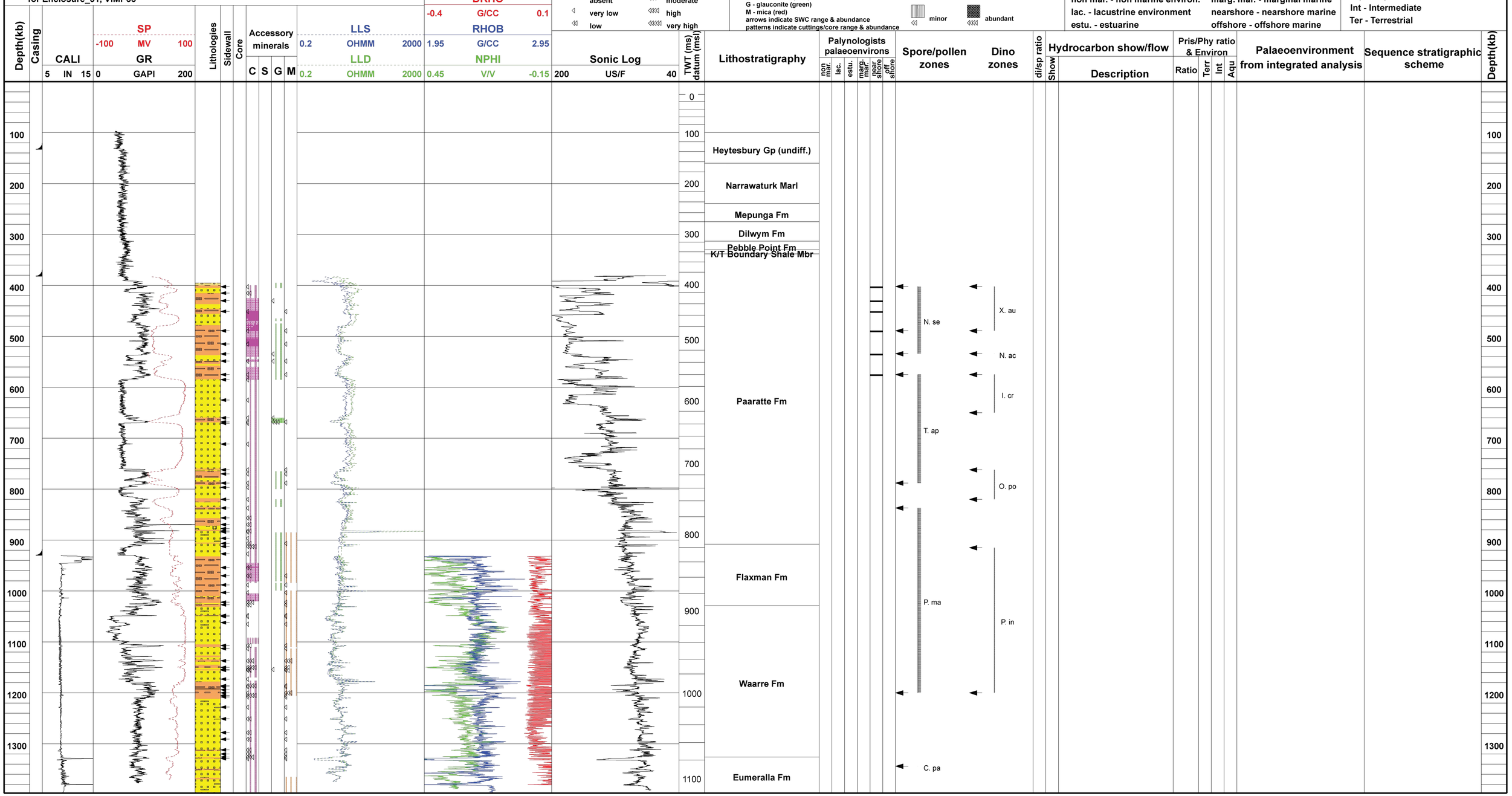
C - carbonaceous debris (magenta)
S - shell debris (blue)
G - glauconite (green)
M - mica (red)
arrows indicate SWC range & abundance
patterns indicate cuttings/core range & abundance

trace — common — minor — abundant

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

Depth(kb) | Casing | CALI 5 IN 15 | SP -100 MV 100 / GR 0 GAPI 200 | Lithologies | Sidewall | Core | Accessory minerals C S G M | LLS 0.2 OHMM 2000 / LLD 0.2 OHMM 2000 | DRHO -0.4 G/CC 0.1 / RHOB 1.95 G/CC 2.95 / NPHI 0.45 V/V -0.15 | Sonic Log 200 US/F 40 | TWT (ms) datum (msl) | Lithostratigraphy | Palynologists palaeoenvirons: non mar. | lac. | estu. | marg. mar. | near shore | off shore | Spore/pollen zones | Dino zones | di/sp ratio | Show | Hydrocarbon show/flow: Description | Pris/Phy ratio & Environ: Ratio | Terr | Int | Aqu | Palaeoenvironment from integrated analysis | Sequence stratigraphic scheme | Depth(kb)