

BRIDGEWATER BAY-1

Location: Offshore Otway Basin
 Latitude: 38 32 25.96 S
 Longitude: 141 21 47.94 E
 Water Depth = 109 m
 Total Depth Drilled (KB) = 4200 m;
 Depth logged (KB) = 4202.125 m
 KB Elevation = 22 m amsl
 Seismic line reference: OH91B-309, sp 2160
 Completed December 9, 1983 by Phillips Australia
 Status = Plugged & abandoned
 Lithostratigraphy by Geoff Geary (1998)
 Lithological interpretation by Natalia Liberman (1998)
 Palynology by A.D. Partridge (1996, 1997) & WCR
 Produced by the Basin Studies Group 19-May-99
 for Enclosure 5 VIMP 68



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.*

Palynological scheme legend

- SPORE-POLLEN:**
 T.be = T. bellus
 P.lu = P. luteolus
 N.as = N. asperus
 P.as = P. asperus
 M.di = M. diversus
 L.ba = L. baileyi
 F.lo = F. longus
 T.li = T. lilioides
 N.se = N. senectus
 T.ap = T. apocyninus
 P.ma = P. macrocarpus
 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. worthaggenensis
 C.au = C. australensis
 R.wa = R. watherooensis
- DINOFLAGELLATES:**
 W.th = W. thompsonae
 C.in = C. incompositum
 H.ta = H. tasmanianse
 D.he = D. heterosphyllata
 A.hy = A. hyperacantha
 A.ho = A. homomorphum
 E.cr = E. crassitabulata
 T.ev = T. evittii
 P.py = P. pyrrophorum
 M.dr = M. druggii
 I.ko = I. korjensense
 X.au = X. australis
 N.ac = N. aculeatus
 L.ro = L. rotundatum
 I.cr = I. cretaceum
 O.po = O. porifera
 C.st = C. striatocornus
 P.in = P. infusorioides
- Palynologists' environments legend**
 nm - non marine
 lac - lacustrine
 est - estuarine
 nm - marginal marine
 ns - nearshore marine
 om - offshore marine
- N.B. Not all palynological zones in the legend have been used in this wellsheet.*
N.B. Environments are based on spore-pollen/dino ratios.

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.*

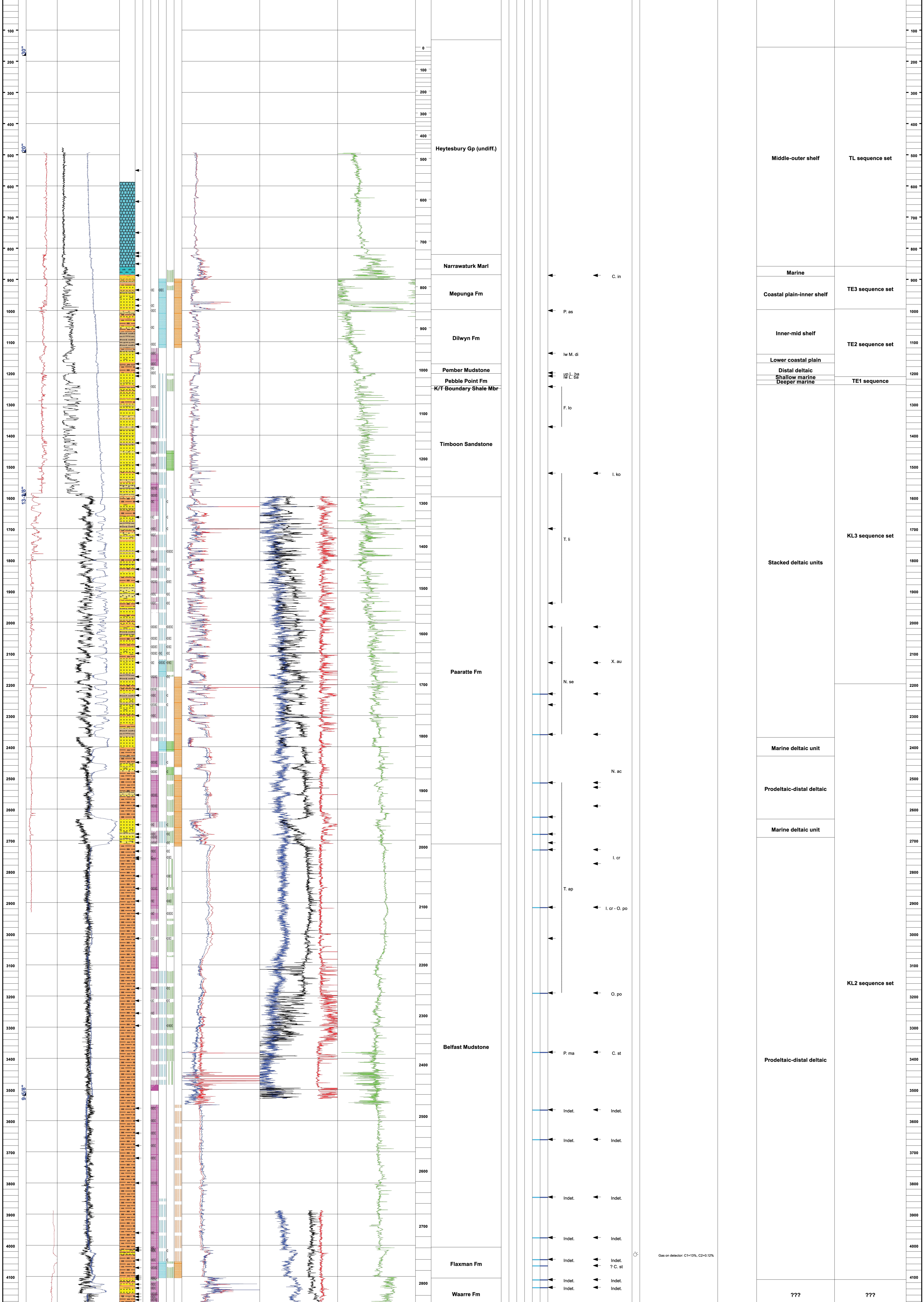
Accessory minerals legend

- C - carbonaceous debris
 P - pyrite
 G - glauconite
 M - mica
- Arrowheads indicate SWC range & abundance
 Patterns indicate cuttings/score range & abundance

Pristane/Phytane Legend

- < 1.5 Anoxic - Subaqueous (lacustrine or marine)
 1.5 - 3.0 Oxid - Transitional environment
 > 3.0 Oxid - Subaerial environment

Depth (kb)	Casing	CALI	SP	MV	GR	GAP	Lithologies	Core	Accessory minerals	ILM	OHMM	2000	ILD	OHMM	2000	-0.4	DRHO	GICC	0.1	RHOB	GICC	2.95	ILM	OHMM	2000	1.95	NPHI	GICC	2.95	ILD	OHMM	2000	0.45	VIV	-0.15	140	Sonic Log	USP	40	TWT (ms)	Lithostratigraphy	Palynologists' palaeoenvironments	Spore/pollen zones	Dino zones	Hydrocarbon shows/tests	Pristane/Phytane	Palaeoenvironment from integrated analysis	Sequence stratigraphic scheme	Depth (kb)



Gas on detector: C1=13%, C2=0.12%