BRIDGEWATER BAY-1

Location Offshore Otway Basin
Latitude 38 32 25.96S
Longitude 141 21 47.94E

Water Depth = 109 m
Total Depth Drilled (KB) = 4200 m
KB Elevation = 23.5 m amsl
Seismic line reference OH91B-309, sp 2160

Completed December, 1983 by Phillips Australia
Status = Plugged & abandoned
Lithostratigraphy by Geoff Geary, 1998
Lithological interpretation by Natalya Liberman, 1998
Palynology by Partridge, 1996 & WCR
Produced by the Basin Studies Group 01-Apr-98 for Enclosure 25 VIMP 55

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 · minor · common · 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 10 IN 25	SP -100 MV 100 / GR 0 GAPI 200	Lithologies	Sidewall	Core	Accessory minerals C S G M	ILM 0.2 OHMM 2000 / ILD 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 140 US/F 40	TWT (ms) datum (msl)	Lithostratigraphy
100											0	
200	30"										100	
300											200	
400											300	
500	20"										400	Heytesbury Gp (undiff.)
600											500	
700											600	
800											700	
900											800	Narrawaturk Marl
1000											800	Mepunga Fm
1100											900	Dilwyn Fm
1200											1000	Pember Mudstone
1300											1000	Pebble Point Fm
1400											1000	K/T Boundary Shale Mbr
1500											1100	Timboon Sandstone
1600	13-3/8"										1300	
1700											1400	
1800											1500	
1900											1600	
2000											1600	Paaratte Fm
2100											1700	
2200											1800	
2300											1800	
2400											1900	
2500											1900	
2600											2000	
2700											2000	
2800											2100	
2900											2100	
3000											2200	
3100											2200	
3200											2300	
3300											2300	Belfast Mudstone
3400											2400	
3500	9-5/8"										2400	
3600											2500	
3700											2500	
3800											2600	
3900											2600	
4000											2700	
4100											2700	Flaxman Fm
											2800	Waarre Fm

Depth(kb)	Palynologists palaeoenvirons: non mar. / lac. / estu. / marg. mar. / near shore / off shore	Spore/pollen zones	Dino zones	di/sp ratio	Hydrocarbon show/flow: Show / Description	Pris/Phy ratio & Environ: Ratio / Terr / Int / Aqu	Palaeoenvironment from integrated analysis	Sequence stratigraphic scheme	Depth(kb)
100									100
200									200
300									300
400									400
500							Middle-outer shelf	TL sequence set	500
600									600
700									700
800									800
900		md N. as	C. in				Marine	TE3 sequence set	900
1000		P. as					Coastal plain-inner shelf		1000
1100		lw M. di					Inner-mid shelf	TE2 sequence set	1100
1200		up L. ba / lw L. ba					Lower coastal plain / Distal deltaic / Shallow marine / Deeper marine	TE1 sequence	1200
1300		up F. lo							1300
1400		lw F. lo							1400
1500			I. ko						1500
1600		T. li							1600
1700								KL3 sequence set	1700
1800		N. se					Stacked deltaic units		1800
1900			X. au						1900
2000									2000
2100									2100
2200									2200
2300									2300
2400			N. ac				Marine deltaic unit		2400
2500							Prodeltaic-distal deltaic		2500
2600									2600
2700		T. ap	up I.cr / up I.cr? / I. cr / O. po / I.cr-O.po				Marine deltaic unit		2700
2800									2800
2900									2900
3000									3000
3100			O. po						3100
3200								KL2 sequence set	3200
3300									3300
3400		P. ma					Prodeltaic-distal deltaic		3400
3500									3500
3600									3600
3700			C. st						3700
3800									3800
3900									3900
4000					Gas on detector: C1=13%, C2=0.12%				4000
4100							???	???	4100