

WELL DATA - OTWAY BASIN

WELL	COMPANY	YEAR COMP.	ELEV.	T.D.	MIO.-OLIG.		E.C. - PALAEOCENE		U. CRETACEOUS		U.-L. CRETACEOUS		L. CRETACEOUS		REMARKS		
					Hevtesbury Glenelg	Wangarrip Knight	Paaratte	Belfast	Flaxmans	Waarre	Otway						
													Demon's Bluff Coal Measures	390		390	1932
Anglesea 1	Oil Devel. N.L.	1962	78	10,308										1932	No shows hydrocarbons. In Otway dips 20°-25° to 8190 (Core 29) toward south. Dips 45°-75° in Core 30 from 8690-8702, slickensides, calcite filled fractures, fault? Dips 35°-45° in succeeding cores.		
Port Campbell 1	Frome-Broken Hill	1960	347	5,965	0	1410	1410	4245	4245	4930	4930	5656	5656	5965	Fluorescence and oil cuts present in several cores through the section from middle Heytesbury to Waarre. The Waarre, 5656-5666, produced a small volume of gas with condensate (65° A.P.I.). Several production tests made. Maximum rate 4000 MCF/day with condensate rate of about 19 bbl. Pressure declined, suggesting reservoir of small volume. A little water (13,700 ppm) present in some of the tests within the interval 5656-5666.		
Port Campbell 2	"	1960	282	8,846	0	1320	1320	4310	4310	5810	5810	7910	7910	8514	A core within Waarre contained saturated gas and also solid bitumen. DST's in Paaratte recovered gas-cut water (9685 ppm. chlorides). DST's in Waarre and uppermost Otway recovered gas-cut water (9200 ppm chlorides).		
Port Campbell 3	"	1961	210	5,530	0	1712	1712	3913	3913	4230	4230	4608	4608	4810	PAARATTE: 4164-4176 gas to surface, water brackish. WAARRE: 4608-4620 and 4716-4726 gas to surface, water brackish to 14,500 ppm. OTWAY: 4956-4963 free gas and salt water 15,000 ppm.		
Port Campbell 4	"	1964	440	5,820	0	1293	1293	3462	3462	4013	4013	4845	4845	5332	OTWAY: UNIT I = 5332-5533 (SS., Qtz., Feld.), UNIT II = 5533 + (SS., more carb.). TESTS: (1) 5874-5903 = rate 1600 MCF/d.; (2) 5947-5970 = rate 2000 MCF/d. plus 1 bbl oil. Flow rate 4.3 hrs. 215 b/d water 14,300 ppm with 15% emulsified crude 46.4 A.P.I. (3) 7235-7254 = globules oil on mud. 1) Otway sandstone section 7210-8115 is correlatable with sandstone in other wells. This section important because hydrocarbon-bearing in Fergusons 1 and Pt. Campbell 4. 2) The well defined green sandstone from 4013-4394 is believed to be a sandy facies of the Belfast, same as indicated in Sherbrook and Ferguson Hill wells.		
Flaxmans 1	"	1961	223	11,528	0	2008	2008	4833	4833	5570	5570	6490	6490	7330	DST in Paaratte 5356-5396 gas-cut muddy water (12,600 ppm). Fair blow until seal failed. Waarre - fluorescence and oil cut in core 6902. DST 6891-6913 good blow, steady, open 50 minutes. Gas-cut water (13,300 ppm). Otway - representative salinity 26,000 ppm. Cores at 7473, 8470 and 11,225 showed fluorescence and good oil cuts. Strong gas kick while drilling at 11,388. Lower zone, 10,842-11,528, tested free petroliferous gas (2500 MCF/d.) with small amount condensate (51.2 A.P.I.). Other tests within interval 8462-9258 indicated some gas along with small amount formation water. Conclusions - In Otway, hydrocarbons present but inadequate porosity and permeability. Waarre and Paaratte contain a minor amount of (dissolved?) wet gas associated with formation water of 12,500 ppm.		
Pretty Hill 1	"	1962	202	8,129	0	1256	1256	2370	2370	2598	2598	2770	2770	2922	BASEMENT (CAMBRIAN GREENSTONE) 7874-T.D. "OTWAY SANDSTONE" 5964-7874. No shows of hydrocarbons. A D.S.T. 6690-6732 indicated a strong flow of salt water (14,000 ppm). The "Otway Sandstone" is made up almost entirely of fine to coarse quartz sand.		
Eumeralla 1	"	1963	167	10,308	0	1268	1268	2740	2740	2960	2960	3108	3108	3108	No oil or gas shows. However, fluorescence and good cuts were present in most of the Otway cores below 4976.		
Ferguson Hill 1	"	1964	651	11,633			0	1326	Paaratte, etc. 1326	2046	2046	2514	2514	6618	Top BASEMENT 11,513 Qtz. Mica Schist Cambro.-Ord. Upper beds. Otway: dominantly interbedded sandstones with siltstones and mudstones. Lower beds Otway: dominantly grey-black micaceous and carbonaceous siltstones and sandstones. Sandstone increases from 11,385 to 11,513 and is a basal sand section. Fluorescence and higher than average gas readings present at number of places in Otway while drilling. Eleven D.S.T.'s (8 failed) from 2050-11,467. No hydrocarbons. Eleven production tests 11,490-2096; seven from 11,490-11,514 gave a little gas-cut mud; two from 5436-5690 gave slight flow of gas, two from 2096-2106 no shows in water 225 ppm Cl.		
Sherbrook 1	"	1963	480	5434	0	508	508	2420	Paaratte etc. 2420	3776	3776	3987	3987	3987	Slight gas shows and some oil staining in marine Cretaceous and in Otway. The shows in Otway appeared to be confined to bedding and fracture planes. Shows 3500 gas on detector and bubbles in core 9 (3365-3378). D.S.T.'s over this interval showed no hydrocarbons. Waarre fresh water. Otway cores 20-23 (4865-4913) showed oil staining, odor, fluorescence and gas on detector. These shows confined to bedding fracture planes and seem not to be disseminated through pore space. D.S.T.'s over this interval showed no appreciable evidence of hydrocarbons.		
Mt. Salt 1 (See APEA p.73, 1963).	Oil Devel. N.L.	1962	86	10,044			590	3151	3151	7500	7500	T.D.	T.D.		Mesozoic stratigraphic subdivision uncertain. D.S.T. 9813-9892 flow salt water (29,450 ppm). Traces of hydrocarbons (fluorescence or extracted oil) were found in cores 998', 7942' and 9851'. Basement at 15,000' is indicated from refraction velocity of 18,000 ft./sec.		
Geltwood Beach 1	Beach Pet.	1964	30	12,308			910	1920	Paaratte, etc. 1920	3680	3680			3680	7120 top "Runnymede" D.S.T. 4982-5404 trace gas. No other shows of hydrocarbons.		
Beachport 1	S.E. Oil Syndicate	1961	20	4,200			854	1800	1800	1910	1910			1910	No shows of hydrocarbons.		
Nelson 1	Vic. Mines Dept.	1946	10	7,305			976	4500	4500					1217	" " " " " Quartz sand 4115-4144 salt water. Top Dartmoor 150' top Bahgalah 931', top Merino (Otway) 1678'.		
Heathfield 1	Planet	1964	244	7,505			150	1217						418	Heathfield sand 2980-3094. Unconformity at base, dips gentle. D.S.T. 3720 gas-cut mud.		
Tullich 1	Planet	1964	272	5,363			140	418						418	"Heathfield sand" 1960-2030, 0° above and 10-15° below. "Gas Flare Sand" at 3850'. Merino at surface. Otway - U. Jurassic 6300, U. Jurassic-Basement 8039. U. Jurassic dated by Potassium-Argon, also plants and spores. Sands, gravels, mudstones and basalt flows near base. Basement slates.		
Casterton 1	Planet	1965	472											Surface			
Kalangadoo 1	Alliance	1965	228											1475	"Runnymede" 1475-4490, Mocambo 4490-		
Robe 1			127	4,505	148	510	510	1475						1043	"Runnymede" 1043-4300, Mocambo 4300-		
Penola 1	Oil Devel. N.L.	1961	204	4,985	0	410	410	1043						578	"Runnymede" 578-1064, Mocambo 1064-		
Comaum 1	S.E. Oil Syndicate		300	1,171	21	344	344	578									
Latrobe 1	Vic. Mines	1963	120	2,034	0	235	235	1585	1585								
Timboon 5	"		315	3,691			11809	2950	2950	3435				3435			
Carpenters 1	"		501	1,854	95	1058	1058			1133				1133			
Tandarook 1	"		613	2,029			1570	1870						1870			
Terang 1	"		435	2,135			1612	1647						1647			
Narrawaturk 2	"		42	5,528			2335	4420	4420								
Panmure 2	"		220	2,880			2050	2640	2640	2670				2670			
Shot Pt. 1-978	F.B.H.		24	538			0	538						538			
Brucknell 1	Vic. Mines	1964	335				2260	3474	3474	3620				4270	Oil show in Waarre, not tested. Green Sand Member potential probable source.		
Brucknell 2	"	1965	567	5,500	0	2143	2143	3473	3473	4050	4050	4134	4134	4270	Green Sand top 3620 4050 4134		
Corriejong 1	"		267	2,036	0	917	917	1645									
Mepunga 7	"		100	3,851	0	2246	2246	3156	3156	3377				3377	Paaratte etc. 3156 3377		
Mepunga 10	"		200	6,002	0	2910	2910	5330	5330	5480	5480				5330 5480 5480		
Wangoom 6	"		27	3,920	16	1895	1895	3004	3004	3314				3314	Paaratte etc. 3004 3314		
Wangoom 2	"		50	4,226	42	2006	2006	2830	2830	3123				3123	Paaratte etc. 2830 3123		
Yangery 1	"		256	4,330	155	1784	1784	2552	2552	2950				2950	Paaratte etc. 2552 2950		
Belfast 2	"		20	5,520	0	1647	1647	3575	3575	4550	4550	4985	4985		4550 4985		
Portland 3	"		16	5,638	28	3150	3150	5392	5392	5573					5573-5638 Lamprophyre. Dated by potassium argon. 17.1 million years (M. Mio.) by B.M.R. and Nat. Univ. Data furnished through Peter Kenley.		
Heywood 10	"		103	5,390	0	1534	1534	4719	4719	5278				5278	Green Sand 5278		
Yalimba 1	"		821	879	472	600								600	Basement at 600'.		
Monivae 4	"		668	967	345	922								922			
Kangerton 5	"		420	1,158	70	1010								1010			
S. Hamilton 3	"		806	850	448	606								606	Basement 606'.		
Birregura 1	"		385	1,103	0	694	694	1056						1056	Basalt 1022-1056.		
Irrewillipe 1	"		550	1,104	Basalt	0	41							41			
Colac 1	Vic. Mines		9900	1,204	Basalt	0	94							94			
Cawarren 5	"		560	605	50	267	267	520						520			
Wensleydale 1	"		600	2,115	0	23								23			
Inverleigh 1	"		215	1,705	38	988	988	1698						1698	Basement 1698.		
Kort Kort Nong 2	"		468	1,079	142	1033								1050	Basement 1050.		
Glenormiston 2	"		569	1,570	228	1482								1482	Basement 1482.		
Ecklin 3	"		438	2,568	150	2090	2090	2380						2380			
Cressy 1	"		415	688	126	620								620	Basement 620.		
Mortlake 1	"		427	707	70	707								707	Basement 707.		
Laang 3	"		210	4,270	0	2408	2408	3298	3298	3440	3440	3645	3645	3759			
Nirranda 3	"		179	5,530	0	2700	2700	4462	4462	4634	4634	5220	5220	5362	5362	5487	
Nirranda 6	"		142	5,514	0	2010	2010	4420	4420	4920	4920	5514	5514				
Yaughar 1	"		500	2,804													
Wolsthorpe 1	"		400	813	48	598	598	771						771	Basement 771.		
Waddallah 1	"		410	644													
Mocambo 1	"		124	564	0	24	24										
Dartmoor 1	"		200	1,100	0	800	800										
Mumbanner 1	"		85	1,170	0	754	754										
Palpara 1	"		600	309													
Yan Yangurt 1	"		600	309													
Nullawarre 3	"	1965	288	5,380	0	2600	2600	4226	4226	4970	4970	5073	5073	5247	5247	5360	5360
Sorrento Base			50	1,696	830	1696											
Point Addis 1	Pt. Addis Co.		40	1,453	0	376	376	823						823			
Geelong Flow Oil	Geelong Flow Oil Co.		100	1,595	0	770	770	1200						1200			