Age (Ma)	Period	Epoch	Stage	Depositional environments	Seismic horizon (AGSO, 2001)	Basin phases
0	QUATERNARY	Holocene	Lt. Pleist.	Marine	Late Miocene	Passive margin
		Pleistocene	M. Pleist.			
			E. Pleist.			
	NEOGENE	Pliocene	Gelasian			
			Piacenzian			
			Zanclean			
		Miocene	Messinian			
10			Tortonian			
			Serravallian			
			Langhian		Base Miocene	
20			Burdigalian			
			Aquitanian			
	PALEOGENE	Oligocene	Chattian		Mid Oligocene	
30			Rupelian			
		Eocene	Priabonian			
40			Bartonian			
			Lutetian			
50			Ypresian		Base Eocene	
		Paleocene	Thanetian			
60			Selandian			
			Danian		Base Tertiary	
70	CRETACEOUS	Late	Maastrichtian			
			Campanian			
80			Santonian			
			Coniacian	Marine		Post-rift active
90			Turonian		Turonian	
			Cenomanian			
100		Early	Albian			
110						
			Aptian		Aptian	
120			Barremian			
			Hauterivian			
130			Valanginian		Valanginian	
			Berriasian	Deltaic	Base Cretaceous	Late syn-rift
140	JURASSIC	Late	Tithonian	Marine and fluvial		
			Kimmeridgian			
150			Oxfordian			Main syn-rift
			Callovian		Callovian	
160		Middle	Bathonian	Marine and deltaic		
			Bajocian			
170			Aalenian			Early syn-rift
		Early	Toarcian			
180			Pliensbachian			
			Sinemurian	Marine		
190			Hettangian		Base Jurassic/ top Triassic	
	TRIASSIC	Late	Rhaetian			
200			Norian	Fluvial to marine		Pre-rift active margin
			Carnian		Intra-Triassic marker	
210		Middle	Ladinian			
			Anisian	Marine		
220		Early	Olenekian			
			Induan			
230						
240						
250						

Barrow Sub-basin

Delambre Formation

Trealla Limestone

Mandu Limestone

Cape Range Group

Giralia Calcarenite

Walcott Formation

Cardabia Calcarenite

Wilcox Formation

Dockrell Formation

Lambert Formation

Moon 1

Maitland 1, Maitland North 1

Miria Formation

Toolonga Calcilutite

Withnell Formation

Beedagong Claystone

Border 1, Crackling 1, Dorrigo 1

Chervil 3

South Pepper 2, Crackling South 1

Outtrim 1, Serrurier 1, South Pepper 1

Chinook 2, Corowa 1, Lauda 1, Taunton 2, 2 L1

Flinders Shoal 1, Immortelle 1

Antiope 1 ST1, Santa Cruz 1

Alkimos 1, Bambra 2, Campbell 1, 2, Harriet A 1, Jane 2

North Alkimos 1, North Marra 1, Rosette 1 ST1, Victoria 1, Wonnich 1

Gearle Siltstone

Agamemnon 1, Agincourt 1 ST1, Albert 1, Artreus 1

Denver 1, Double Island 1, Gibson 1, Gudrun 1, Harriet B 1

Harriet B 2, Harriet C 1, Hoover 1, Little Sandy 1

Mohave 1, Monet 1, North Pedirka 1, Orpheus 1, Outtrim 1

Pedirka 1, Priam 1, Remus 1, Romulus 1, South Plato 1

Tanami 1, Gobi 1, South Gibson 1, West Cycad 1, Zephyrus 1

Windalia Radiolarite

Endymion 1, Halyard 1, Kultarr 1, Montgomery 1, Selene 1, Sinbad 1

Australind 1, Bambra 2, Bennet 1, Chevril 1, Chinook 1

Cowle 1, Cycad 1, Errol 1, Nasutus 1, Pasco 1, 3

Roller 1, Skate 1, South Chervil 1, South Pepper 1

West Barrow 1A

Barrow Deep 1

Triller 1

Venture 1

Windalia Sand Member

Muderong Shale

Chervil 3, Coaster 1, Corowa 1, Crest 1, Dillson 1

Griffin 1, 2, Hilda 1A, Koombana 1A

North Herald 1, Peck 1, Saladin 1, Woollybutt 1, 5A

Scindian 1A, North Herald 2

Mardie Greensand Member

Birdrong Sandstone

Scindian 1A

Narvik 1

Toobada 1

Wonnich Deep 1

Bambra 1, Doric 1, Ulidia 1, Windsor 1

Flag Sandstone

East Pepper 1, Emma 1, Flores 1, Glennie 1

Gregory 1, Nares 1, Robot 1A, Rosette 1 ST1

Thevenard 1, Trap Reef 1, West Pepper 1

undifferentiated Barrow Group

Winning Group

Barrow Group

Bowers 1

East Spar 1

Barrow Island L54J

Bowers 1, Rosily 1A ST1, Spar 1, Halyard 1

Dupuy Formation

Austin 1, Moon 1, Pasco 2A

Tryal Rocks 1, Venture 2 ST1

Barrow Island L54J

Dingo Claystone

Flag 1, Koolinda 1

East Spar 1, John Brookes 1 ST1, Rosella 2 ST1, ST2, Nimrod 1 ST1

Pepper 1, South Pepper 2, Spar 2, West Cycad 1

Biggada Formation

South Pepper 1

Calypso Formation

Pepper 1, Highgrove 1, Wonnich Deep 1

Bay 1, Forrest 1A ST1, North Herald 1

Antiope 1 ST1, Basil 1, Bay 1, Boojum 1, Gaius 1, Leaf 1

Minden 1 ST1, Rosella 1 ST1, 1 ST2, Salsa 1

Athol Formation

Gregory 1, Bambra 1, Bambra 2, Dill 1

Bambra 1, Barrow Island L54J

Denver 1, ST1, Dawn 1, Linda 1 ST1

Gregory 1, Dorrigo 1

Barrow Deep 1 ST1, ST2, Ginger 1

Murat Siltstone

Gipsy 1

West Gipsy 1

Baker 1, Lee 1, Josephine 1, Monty 1, Rose 1

North Rankin Formation

Sawback 1, West Gipsy 1

Baker 1, Josephine 1, Lee 1, Monty 1, Nimrod 1 ST2, Rose 1

Brigadier Formation

Baker 1, Bob 1, Bowers 1, Cadell 1, Elder 1, Hermite 1, Josephine 1

Monty 1, Nimrod 1 ST2, ST3, Robert Addams 1, Rose 1, Zola 1 ST1

Lee 1

Mungaroo Formation

Cossigny Member

Mungaroo Formation

Locker Shale

PP-3978-8

Sandstone

Clayey sandstone

Limestone

Reef Limestone

Marl

Radiolarite

Claystone

Sandy claystone

Siltstone

Oil discovery

Gas discovery

Oil and gas discovery

Gas show

Gas discovery and oil show

Oil and gas show

Oil show