

Borneo: plays that work and plays that don't

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The wide variety of successful Tertiary play types in Borneo includes shelfal sands in faulted anticlines (e.g. Seria, SW Ampa, Tarakan, Bunyu, Samarang, Erb West, Handil, Attaka, Bekapai), four-way closures without internal faulting (Baronia), unfaulted folds with reservoirs in draped channel sands (Sanga Sanga, Badak, Nilam, Tunu), complex wrenched and/or thrust anticlines (Tarakan, St. Joseph, South Furious, Semberah), and faulted plunging noses (Champion, Betty, Baram South). Seaward shaleout of shelfal reservoirs is often a critical factor.

Turbidite sandstone plays that work include faulted basin-floor anticlines (Tembungo, Seno, Merpati), and faulted rollovers in slope channel sands (Merah Besar).

Carbonate plays that work embrace the numerous giant gas fields of the Luconia Platform microcontinent (e.g., F6, E11), with Cycle IV-VI carbonate reservoirs filled by Cycle I coaly shale sources. Both source and reservoir postdate the collision with Borneo. In contrast, the other major regional carbonate field (Malamaya-Camago) has a Miocene reservoir sourced by older sag clastics at the top of a rift valley that predates the collision with Palawan.

Plays that don't work include faulted four-way closures (Mutiara Hitam) diapiric anticline with rollover (Nymphe North), diapiric anticlines with broken crests (Samarinda Anticlinorium), reefs flanking or overlying source basins (Karang Besar, Tabellar, Asem-Asem H-1) and platform reefs lacking adjacent source basins (SW Palawan).
