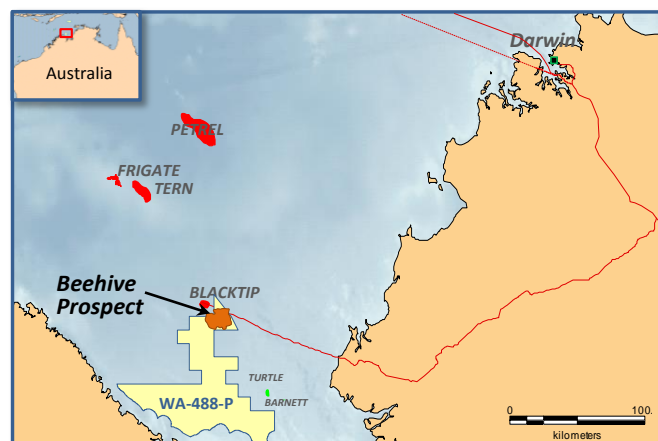


Beehive – largest undrilled prospect in Australia

Santos has an option to acquire an 80% interest by fully funding the Beehive-1 well

WA-488-P is located in the Petrel Sub-basin between the producing Blacktip gas field and the undeveloped Turtle and Barnett oil discoveries and has an area of 4,074 km².

Melbana has identified the potentially giant Beehive prospect, located in 40m water depth and defined by a tight grid of high quality 2D seismic data, as one of the largest hydrocarbon prospects remaining in Australia. A 3D Seismic Survey, fully funded by French supermajor Total and Australia's Santos was completed in August 2018. Santos have an option to fund 100% of the first exploration well in WA-488-P in return for receiving an 80% participating interest in the permit. The option to drill is exercisable until 4 December 2019. If Santos exercises the option, Melbana will have a fully carried 20% participating interest until completion of the first exploration well in WA-488-P.



Potentially the largest undrilled hydrocarbon prospect in Australia, the Beehive prospect is characterized by Independent Expert McDaniel & Associates as having significant prospective resources as outlined in the following table:

Prospective Resources^{1,2} – Recoverable

Independent Expert McDaniel & Associates estimates Prospective Resource of up to 1.6 billion barrels of oil

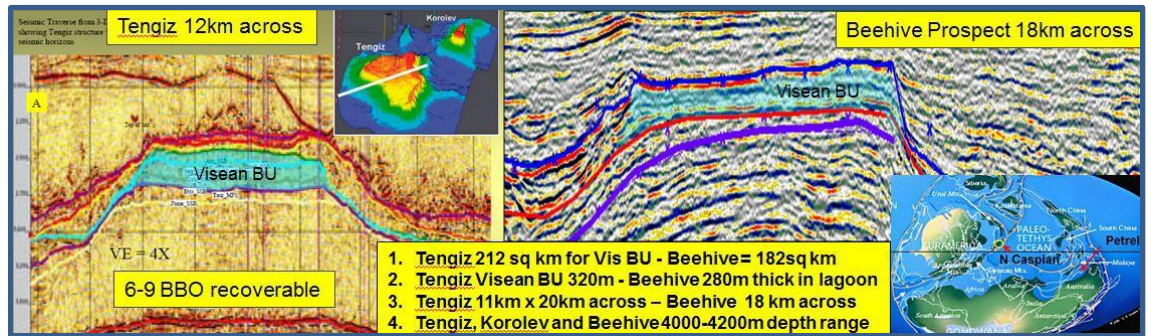
Objective	Type	Chance of Success	Recoverable Prospective Resource ^{1,2}			
			Low	Best	High	Mean
Beehive	Gas (BCF)		134	534	2,199	936
	Oil (MMbbl)		69	299	1,279	548
	TOTAL (Mmboe)	20%	91	388	1,645	704

¹The estimated quantities of petroleum that may potentially be recovered by the application of a future development project(s) relate to undiscovered accumulations. These estimates have both an associated risk of discovery and a risk of development. Further exploration appraisal and evaluation is required to determine the existence of a significant quantity of potentially moveable hydrocarbons. COS – Geological Chance of Success. MMboe – Conversion factor 6000scf/boe

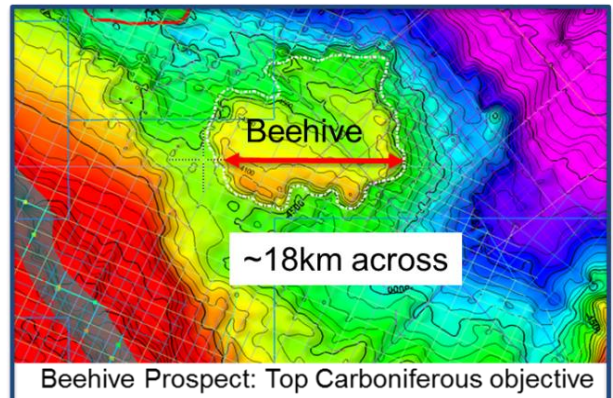
²per Independent Expert McDaniel & Associates Competent Persons Report June 30, 2018

Beehive Technical Overview

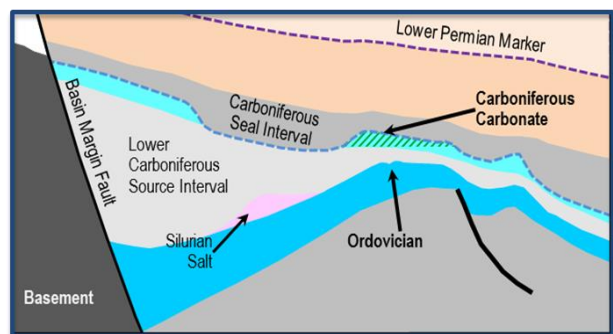
**Multi-billion
barrel
Tengiz
analog**



The Beehive prospect is a Carboniferous age 180km² isolated carbonate build up with 400m of mapped vertical relief, analogous to the giant Tengiz field in the Caspian Basin. It is located in 40m water depth suitable for a jack up rig, within ~75km of shore and developable by either FPSO or pipeline to existing infrastructure. This play type is new and undrilled in the Bonaparte Basin with no wells having been drilled to this depth in the basin.



Beehive is analogous to the giant Tengiz field in the Caspian basin, which is also a Carboniferous isolated carbonate build up. The carbonate reservoir is also interpreted to be the same age as the 2011 Ungani-1 oil discovery in the Canning basin, which tested at 1,600 bopd demonstrating a high quality reservoir. Beehive is a much larger build up than Ungani and has excellent access to the Lower Carboniferous source rock in adjacent depocentres. This play setting is undrilled in the Petrel Basin.



In 2017, Melbana undertook a reprocessing and inversion study of selected seismic lines across the Beehive Prospect with very encouraging results. The seismic inversion results combined with the results of the reprocessing have enhanced the understanding of the Beehive reservoir and seal units.

**3 D Survey
completed
mid-2018**

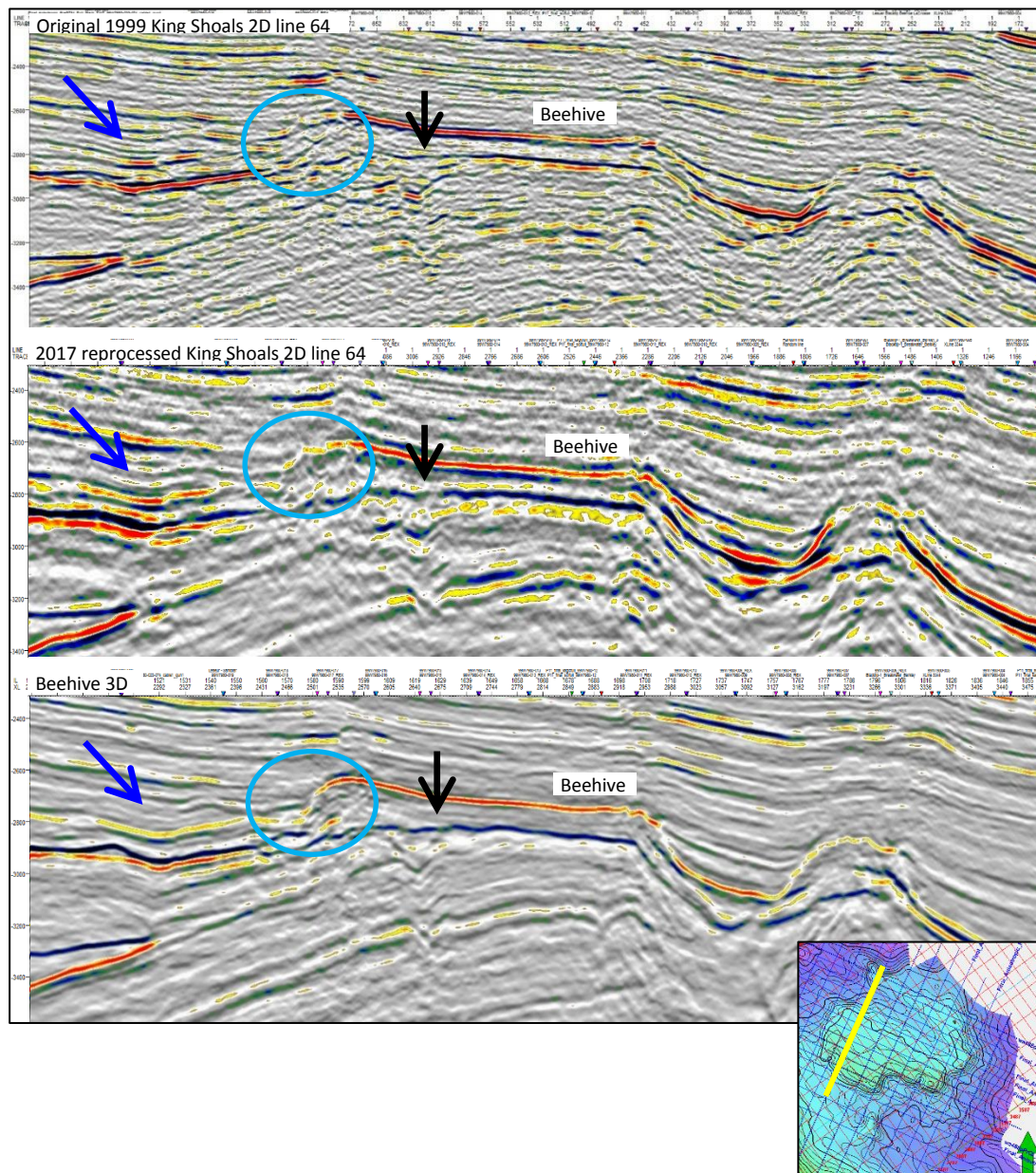
Beehive 3D Seismic Survey

The Beehive 3D Seismic Survey, which commenced on 24 July 2018 and was completed on 14 August 2018, provided modern 3D imaging of the Beehive Prospect further de-risking of the prospect and facilitating consideration of a preferred location for the Beehive-1 exploration well.

During the planning of the Beehive 3D Seismic Survey, a new lead was identified and the survey area was extended by ~100km² (~16%) to provide coverage over the newly identified lead (Egret) that is partially within the boundary of WA-488-P. The extension of the survey area is within the approved scope and operational envelope of the Beehive 3D Seismic Survey. The Beehive 3D Seismic Survey, including the extension over the Egret lead was fully funded by Santos and Total.



Polarus Naia undertaking the Beehive 3D Survey in Australia



Improved Data quality with the Beehive 3D Work Program

Permit Year	End Date	Minimum Work Requirements	Estimated Expenditure (indicative only)
2	21 Sep 2018	Geological and Geophysical Studies Survey Data Proprietary Processing 150km 2D Broadband Reprocessing and Seismic Inversion 330km 2D Broadband Seismic Reprocessing, Seismic Stratigraphic Interpretation and Analogue Field Study	A\$200,000 A\$300,000 A\$150,000 A\$250,000
3	21 Dec 2020	One Exploration Well	A\$20,000,000
4	21 Sep 2020	400km ² New 3D Seismic Survey (2018 3D Survey credited against this)	A\$5,000,000
5	21 Sep 2021	Geological and Geophysical Studies	A\$200,000
6	21 Sep 2022	One Exploration Well	A\$20,000,000

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