



OIL & GAS RADAR

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WHAT'S ON THE RADAR?

TAMARIND SWAPS RIGS

Tamarind Resources confirmed rig swap for its upcoming Tui oilfield development drilling program in Taranaki Basin PMP-38158, with COSL Prospector now to be used for program instead of another COSL floater, Hai Yang Shi You 982; marine consents for program granted by NZ Government [see also OFFSHORE RADAR item]

NTP MAKES A MOVE

Noble Tom Prosser mobilising from mooring off Darwin to start its next contract for Santos, including eagerly anticipated Dorado-1 appraisal drilling in Bedout Sub-basin WA-437-P [also Carnarvon 20%]; jackup's program opens with Corvus-2 appraisal well in Santos's 100%-held Carnarvon Basin WA-45-R

GIPPSLAND SEISMIC COMMITTEE

Seismic contractor CGG takes what's understood to be unprecedented step of putting together a specially formed Scientific Advisory Committee, comprised of fishing industry representatives & experts, to facilitate approvals for its Gippsland multi-client 3D survey, approved this week by NOPSEMA [see also SEISMIC RADAR]

COOPER GETS DRILLING GO-AHEAD

NOPSEMA accepted environmental plan for Cooper Energy's Otway Basin exploration drilling program, scheduled to start in coming months using semi-submersible Ocean Monarch following its current ExxonMobil contract

PELICAN APPROVALS SOUGHT

Victorian state government seeking approvals to drill offshore appraisal well Pelican-1 in Greenhouse Gas Assessment Permit VIC-GIP-002 as part of CarbonNet's commercial-scale carbon capture & storage project; jackup Noble Tom Prosser booked to drill Pelican-1 to PTD ~1500m in 2019/2020 summer

MONTARA HANDOVER DELAY

NOPSEMA still not satisfied with Jadestone Energy's environmental plan to assume operatorship of Montara field facilities in Timor Sea AC-L-7 & AC-L-8, with company asked to resubmit its plans by 1 April; PTTEP will continue to operate Montara in interim

SEARCHER BUILDS DATA LIBRARY

Searcher Seismic adds to its data library Triok 2D survey consisting of 3845km 2D long-offset, high-resolution, broadband seismic across Cape Vogel Basin & Huon Gulf in offshore PNG; Triok 2D recorded by BGP & completed in October last year [contact: sales@searcherseismic.com]



NZOG WRITE-DOWNS

Write-downs of Kisanan asset in Indonesia & Kohatukai-1 exploration well in Taranaki Basin PEP-55768 [*Mitsui 50%, NZOG 25% & OG 25%] main contributors to NZOG recording net loss of \$4.8mil for six months to 31 December 2018; unsuccessful Kohatukai-1 drilled by Webster NOVA-1 in September-October last year

ARROW CSG PROJECT APPROVED

Arrow Energy received state government approvals to start \$10bil Surat Gas Project with 14 petroleum leases granted from which an extra 5000PJ of gas will be supplied to export & domestic markets over 27 years; development will require drilling of hundreds of new coalseam gas wells

OFFSHORE RADAR

1. Tamarind Resources received approvals from NZ Government to start its upcoming Tui oilfield development program in 100%-held Taranaki Basin PMP-38158
2. Malaysia-based company planning minimum of three side-track development wells, with fourth possible pending results, using floater COSL Prospector
3. Program, scheduled to start in June & take ~110 days, is aiming to develop an additional 6 to 8mil bbl oil extending life of Tui field into mid-2020s
4. Tamarind made no mention of exploration well as part of COSL Prospector's program after interest sought from partners to drill Tui East-1
5. Tui East-1 considered to have potential mean oil-in-place of 118.3mil bbl total in Moki A, D Sand & F10 Targets, with mean prospective resource of 56.6mil bbl
6. Exploration well had been pencilled in at end of Tui development program to take advantage of move/demove cost benefits
7. Rig originally selected for the Tui campaign, Hai Yang Shi You 982, swapped out for another floater COSL Prospector at contractor's request
8. COSL Prospector is sister rig to HYSY 982; both can operate in water depths up to 1500m with drilling capacity of 7500m
9. Self-propelled COSL Prospector is mobilising from Norway which is expected to take approximately 120–130 days
10. HYSY 982, delivered from shipyard in March last year, contracted by Eni & is operating in South China Sea



SEISMIC RADAR

1. NOPSEMA approved CGG's 11,161km² Gippsland MC3D survey across major part of Gippsland Basin, from 13km offshore to 125km out in Bass Canyon
2. CGG first submitted application for survey in September last year, with several resubmissions & extensions required
3. Economic & environmental complexity in region meant extensive stakeholder consultation was necessary
4. One outcome is survey to be recorded in five zones, each taking maximum of one month to complete
5. Specially convened Scientific Advisory Committee to determine order of acquisition in zones "to minimise impacts to fishing operations, sensitive receptors such as migrating whales and spawning fish"
6. Committee established in November last year "to advise CGG on key fisheries concerns and options for addressing these concerns"
7. Members comprised of fishing industry representatives, consultants, experts, academics & CGG
8. Committee also advising on development of two research studies "aimed at evaluating impacts of key concern to fisheries stakeholders"
9. CGG to undertake assessment of Gippsland MC3D survey impacts on octopus & Danish seine fisheries
10. *Editor: CGG & its consultants to be commended for their inclusive approach to consultation in devising what should be a positive workaround for a potentially sensitive project*
11. Survey scheduled to take maximum of 6.5 months & to be conducted some time between March 2019 & end July 2020, with timing dependent on vessel availability
12. Breakdown of CGG's Geo Coral while recording Davros Extension MC3D, forcing it to leave Australia, threw spanner in works for Gippsland survey
13. CGG understood to be in process of sourcing at least one vessel, possibly two for undershooting, to start Gippsland MC3D as soon as practical
14. Second vessel will be required for recording in vicinity of up to 10 platforms in acquisition area; survey has operational area of ~13,421km²
15. Onshore, Synterra completed Comet Ridge's 300-420 km Koorra 2D survey in ATP-743, ATP-744 & ATP-1015



WANDOO

1. Canada's Vermilion Energy reported successful result from its two new Wandoo oilfield infill wells in 100%-held Barrow Sub-basin WA-14-L
2. Wandoo B-15 & -16, drilled by Noble Tom Prosser between November-January, tested at 8800BOPD & 7600BOPD respectively
3. Vermilion said Wandoo B-15 & -16 were "the most technically challenging wells ever executed" by the company
4. Both were drilled at vertical depths of ~ 650m, but with measured depths of 4960m & 3697m for B-15 & B-16 respectively
5. B-15 also had an ~180 degree turn to reach additional oil; Vermilion said "these are some of the most extreme extended reach wells at shallow depth in the world"
6. Vermilion plans to intermittently produce B-15 & B-16 at restricted rates to maximise long-term value
7. 2-well program cost US\$75mil, approximately \$10mil over budget due to:
 - Slower-than-expected drilling in vertical sections
 - Lost circulation in part of B-15 horizontal section
 - De-manning rig for around one week due to cyclone
8. Overall field production averaged 4174BOPD in Q4 2018, down 11% from previous quarter due to planned maintenance shutdown & downtime associated with drilling two new wells

OFFSHORE PERMITS

1. Two other cash bid permits awarded as well as Beach's VIC-P-73 in Otway Basin, as reported in previous edition
2. Woodside accepted offer for 80km², Northern Carnarvon Basin WA-536-P in partnership with Kufpec
3. WA-536-P fills in comparatively small block of acreage around LNG-scale gasfields in WA-49-L (Julimar/Brunello) & WA-34-L (Pluto)
4. Square sits to north-east of WA-356-P [*Woodside 65% & Kufpec 35%], & despite promising address has remained vacant for several years
5. Chevron awarded 80km² Exmouth Sub-basin WA-537-P on corner of northern section of WA-367-P & WA-83-R retaining Pinhoe big gas discovery [also Shell 50%]
6. In total \$11.1mil paid to secure the three new exploration permits awarded from 2018 Offshore Petroleum Exploration Acreage Release cash bid auction

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7. However Department of Industry Innovation & Science said “Future offshore acreage releases will focus on work bidding”
8. Santos granted variation to work program in Carnarvon basin WA-191-P [also Kufpec 33.4% & JX Nippon 25%] removing final year-5 well requirement
9. WA-191-P contained Mutineer/Exeter & Fletcher/Finucane South producing fields WA-54-L, WA-26-L & WA-27- L
10. Production from project ceased around middle of last year with FPSO Modec Venture 11 sailing away in July
11. Fields produced more than 74mil bbl oil since production first started from Mutineer-Exeter in 2005
12. JV appears content to allow WA-191-P to expire in June 2020 after permit first awarded in 1982 & renewed six times
13. Exmouth Sub-basin WA-383-P renewed for second time with area reduced to 481km² in sections from previous area of 1614km² [*Chevron 50% & Shell 50%]
14. Big gas discoveries within permit, Pinhoe-1 & Blake-1, retained as WA-83-R & WA-89-R respectively

ONSHORE RADAR

1. Saxon Rig-183 continues with Beach’s Cooper Basin appraisal/development program, currently drilling Hanson-8
2. Hanson-8 in Beach’s 100%-held PPL-255, covering Hanson & Snelling fields, latest development well following Hanson SW-1 appraisal completed in late January
3. Ensign Rig-950 completed operations at Cuisinier-29 in PL-303 for Santos & mobilising to next well in program, Cuisinier-30 [also Bengal 30.36% & New Hope 15%]
4. Watkins-6 appraisal well in PL-35 Naccowlah block plugged & abandoned with “reasonable oil shows” after reaching TD 1713m
5. Ensign Rig-965 is mobilising to next well, Watkins-5 [PL-35: *Santos 55.5%, Beach 38.5%, Bridgeport 2%, Energy World 2% & Bounty 2%]
6. Buru Energy planning workover of Ungani North-1 in Canning Basin L-20 [also Roc 50%], drilled between July-December 2012
7. Existing completion tubing to be removed before perforating, injection testing/circulation & well re-completion
8. No rig required as operations to be performed by jacking platform, crane & wireline unit in 2019 dry season
9. Ungani North-1 in then EP-391 originally drilled by MBCentury Rig-7, but suspended above PTD after mechanical failure in drawworks resulted in damage to top drive



CURRENT EXPLORATION / APPRAISAL WELLS

Offshore



Onshore

