



OIL & GAS RADAR

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WHAT'S ON THE RADAR?

WOODSIDE TAKES MORE RIG TIME

Woodside extends its Ensco DPS-1 contract following rig's existing contract scheduled to conclude in August; Woodside has added another two firm wells, from February 2020 to May 2020, plus one X 7-well option [see also OFFSHORE RADAR item]

JACKUP OPTION FOR JADESTONE

Jadestone Energy has 1-well option for jackup Ensco-107 after rig drills Stag-49H development well in 100%-held Barrow Sub-basin WA-15-L from March to April; Jadestone initially had plans for program consisting of three Stag infill wells & one appraisal well

PLANS FOR ANOTHER VIC-P-70 WELL

ExxonMobil planning to drill another deepwater well in Gippsland Basin VIC-P-70, Sculpin-1, spudding late Q2 to early Q3; Ocean Monarch drilled Hairtail-1 & Baldfish-1 in permit between August & November last year [see also OFFSHORE RADAR item]

EQUINOR RELEASES BIGHT PLANS

Norwegian major Equinor progresses its plans for drilling in the Great Australian Bight, submitting to NOPSEMA draft environmental plan for proposed Stromlo-1 exploration well in its 100%-held EPP-39 [see also EQUINOR item]

TODD DROPS TARANAKI PERMIT

Todd Energy surrendered its 100%-held offshore Taranaki Basin PEP-53374 exploration permit neighbouring producing Tui & Maui fields; no wells drilled in permit but it was included in Schlumberger's Western Platform MC3D seismic survey recorded in 2017/2018 summer

WOODSIDE REQUESTS VARIATION

Woodside applied for variation to Northern Carnarvon Basin WA-428-P [also Mitsui 30%] where year-4 well required by June next year; permit, within tie-back distance to Pluto infrastructure, renewed in 2016

LAKES RAISES DRILLING FUNDS

Lakes Oil raised approximately \$2.08mil, with shortfall of \$4.05mil, via its 1 for 5 non-renounceable entitlement offer closed on 15 February with some funds raised going towards drilling of Nangwarry-1 in Otway Basin PEL-155 [also Vintage 25%]; spud scheduled in May

MORE TIME FOR 3D SEISMIC

3D Oil awarded 12-month suspension & extension of Otway Basin TAS-49-P year-5 work program allowing it additional time, until 21 February 2020, to fulfil seismic commitment; 3D Oil seeking approvals to acquire 1580km² Dorrigo 3D survey in TAS-49-P in September-October this year



TASMAN EXPANDS INTO SINGAPORE

Perth-based Tasman Oil Tools expanding into Singapore following agreement to acquire complementary oil tool rental fleet based in SE Asia region as result of liquidation of competitor; new base will support Tasman's existing & future clients throughout the region

OFFSHORE RADAR

1. Woodside adds to Ensco DPS-1's work book by contracting floater for an additional two firm wells, plus one X 7-well option
2. Firm wells scheduled to be drilled from February 2020 to May 2020, after floater's current contract with Woodside finishes around August this year
3. Ensco DPS-1 currently assigned to Woodside's Greater Enfield development project, starting 12-well program in February 2018
4. Reference dropped to Woodside having two 3-month options or one 3-month & one 6-month option on Ensco DPS-1 following 12 firm wells
5. New 7-well option potentially so Woodside has a rig in its pocket in case planned developments are realised within that time frame
6. Woodside is working up Scarborough & Browse big gas developments, targeted for FID by early 2020 & late 2020 respectively
7. In deepwater Gippsland Basin, ExxonMobil planning new exploration well in its 100%-held VIC-P-70, Sculpin-1
8. At ~2300m water depth, Sculpin-1 will be far deeper than ExxonMobil's other two VIC-P-70 wells, Hairtail-1 (~359m) & Baldfish-1 (~665m)
9. Hairtail-1 & Baldfish-1 drilled between August-November last year by semi-submersible Ocean Monarch
10. After stacking for couple of months, Ocean Monarch currently on P&A activities in ExxonMobil's Blackback field in Gippsland Basin VIC-L-20 [also BHP 50%]
11. Addition of Sculpin-1 means crowded schedule for Ocean Monarch before it leaves coast for new contract around August
12. Floater also contracted by Cooper Energy to drill two Otway Basin exploration wells, Annie-1 in VIC-P-44 & Elanora-1 in VIC-L-24 [also Mitsui 50%]
13. Cooper wells programmed to take ~30-50 days each, while Sculpin-1 has estimated duration of 60-65 days



EQUINOR

1. Equinor submitted 426-page draft environmental plan, plus ~1000 pages of supporting information, to NOPSEMA for proposed Stromlo-1 well in Ceduna Sub-basin EPP-39
2. Stromlo-1 programmed to take approximately 60 days drilling to PTD 5186m in water depth of 2239m; ultra-deepwater rig required
3. Equinor plans to spud Stromlo-1 in late 2020 in summer months when conditions generally more benign
4. Stromlo-1 was one of two wells, also Whinham-1, picked by BP for drilling when it operated EPP-37, EPP-38, EPP-39 & EPP-40 with Equinor (then called Statoil) 30% partner
5. BP contracted newbuild ultra-deepwater floater Ocean GreatWhite but withdrew from Bight permits in October 2016
6. EPP-37 & EPP-38 were relinquished while Equinor took on EPP-39 & EPP-40 on 100% basis in June 2017
7. Equinor took unprecedented step of releasing Stromlo draft EP to public before submission of final EP for assessment by NOPSEMA
8. Interested parties given 30 days to provide comments on draft EP directly to NOPSEMA before final submission
9. Equinor getting on front foot in process for drilling activity that is certain to attract close scrutiny from community & environmental groups
10. Country manager Jone Stangeland said, "Over the last two years we have engaged with more than 100 different organisations in the South Australian community"
11. Stangeland said Equinor had listened to requests that it be open about its drilling plans & so decided to release the draft EP

ONSHORE RADAR

1. Santos completed operations at Cuisinier-26 in PL-303 with Ensign Rig-950 moving to next well, Cuisinier-29 [also Bengal 30.36% & New Hope 15%]
2. Ensign Rig-965 cased & suspended Watkins-4 in PL-35 Naccowlah block & spudded appraisal well Watkins-6, drilling to PTD 1706m
3. PL-35: *Santos 55.5%, Beach 38.5%, Bridgeport 2%, Energy World 2% & Bounty 2%
4. Senex Energy's half year results show positive results from its nearfield wells in producing Snatcher & Growler fields
5. However its conventional wildcat exploration program in former PEL-111 permits using Saxon Rig-185 struck out with four dusters reported

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6. Commitment wells Huey-1 in PRL-145, Avenger-1 in PRL-146, Flanker-1 in PRL-149 & Voodoo-1 [also Beach 40%] all plugged & abandoned
7. Santos to begin mobilising Ensign rig soon for dry season spud of Dukas-1 gas exploration well in Southern Amadeus Basin EP-112 [also Central 30%]
8. Primary target Heavitree Formation prognosed to range from approximately 3200m to ~3700m depth
9. Drilling & completion of Dukas-1 scheduled to take ~ 9 weeks with planned total depth of ~4200m programmed
10. Beach Energy seeking approvals to drill Beharra Springs Deep-1 in Perth Basin L-11 [also Mitsui 33%] testing Kingia & High Cliff Sandstones underneath Beharra Springs gasfield
11. Previous operator Origin/Lattice Energy considered drilling Beharra Springs Deep-1 as far back as 2003; Beach consequently acquired Lattice
12. Previous wells in field, for example Beharra Springs-4 in 2007, drilled to total depth of +3300m MD so big capacity rig required
13. Easternwell Rig-103 selected for Galilee Energy's new 3-well Glenaras drilling program in Galilee Basin ATP-2019-P, scheduled to start in early April

WA-498-P

1. Skye Energy applied for suspension & extension to its 100%-held Carnarvon Basin WA-498-P
2. Single exploration well currently due in final year-6 of permit work program by April 2020, after drilling already deferred from year-5 by previous JV
3. Private company Skye acquired permit from operator Santos (75%) & JX Nippon (25%) in December last year
4. WA-498-P rolled into Tanami Energy's project portfolio via common director, Craig Burton
5. Tanami working up two prospects; Bligh Deep targeting Mungaroo formation at depth of ~5200m & Tahiti in Angel formation at estimated depth of 3160m
6. Perth-based private company seeking to farm down before drilling
7. Last year Tanami acquired for "nominal fee" Carnarvon Petroleum's Cerberus permits, Barrow Sub-basin EP-475, EP-490, EP-491, EP-497 & TP-27
8. Permit extensions & suspensions pushed back drilling commitments with first wells now due by May 2020
9. Tanami last year purchased Tap Oil's 10% interests in Taunton project in state-administered Barrow Sub-basin TL-2/TP-7 for \$350,000
10. Perth-based Skye Energy last year acquired Dampier Sub-basin production permit WA-8-L containing Amulet & Talisman fields



HARRIET DECOMMISSIONING

1. Santos making plans to continue decommissioning of Varanus Island hub offshore facilities in Barrow Sub-basin
2. Facilities in question consist of up to 17 offshore structures in several state-administered production licences
3. Santos holds legacy assets on 100% basis following acquisition of Quadrant Energy last year & departure of JV partners Kufpec (19.28%) & Tap (12.22%) prior to that
4. Quadrant Energy started decommissioning program, including Harriet monopods & associated fields, in 2016 using jackup Noble Tom Prosser
5. Specific permits/fields covered in 5-year plan are:
 - TL-1: Linda, Gypsy, Bambra sea pole, Harriet Alpha, Bravo & Charlie offshore facilities (including the flare), & Simpson A/B offshore facilities
 - TL-5: Campbell & Sinbad fields
 - TL-6: Agincourt, Gibson/South Plato & Victoria fields
 - TL-8: Wonnich field
 - TL-9: Double Island & Twickenham fields
6. Asset removal activities will include:
 - Site surveys
 - Preparatory works prior to removal
 - Removal of topsides and securing on project vessel
 - Removal of any external conductors and securing on project vessel
 - Removal of any topside support structure and securing on project vessel
 - Cutting of wellheads back to the mudline (if practicable), to fulfil well plug and abandon (P&A) requirements
 - Installation of a cement cap (or similar) to cover any exposed remaining structure on the seabed where required
7. Equipment required could include one or combination of:
 - Moored crane barge
 - Moored support vessel
 - Self-elevating platform
 - Mobile Offshore Drilling Unit (MODU)
 - Dynamically positioned vessel

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8. Santos seeking approval period of five years so it can schedule activities around vessel availability & suitability
9. Quadrant predecessor Apache Australia entered WA industry in 1993 via \$US98mil merger with Hadson, then operator of Barrow Sub-basin acreage that evolved into Harriet JV
10. With Apache (68.5%) operating, JV comprised of Kufpec (19.28%) & Tap (12.22%) became very active & efficient drillers

SEISMIC RADAR

1. Ramform Hyperion due into Australia this week to start PGS's 5500km² Mawson 3D, part of wider Rollo MC3D
2. Mawson 3D understood to be in Chevron's Northern Carnarvon Basin WA-528-P, WA-529-P & WA-530-P permits [also Woodside 50%]
3. Survey was rolled into wider Rollo MC3D, which when first submitted to NOPSEMA for approvals in October 2016 had operational area of +841,000km²
4. Operational area originally stretched from southern Carnarvon Basin to WA-NT border in Bonaparte Basin
5. Consequently PGS made significant changes to survey scope, reducing size of proposed acquisition area by approximately 86%
6. New scope pulled survey back to within Northern Carnarvon Basin & Beagle/Dampier Sub-basins & removed plans for conducting 2D seismic & CESM surveys within area
7. NOPSEMA approved revised Rollo MC3D survey environmental plan in mid-October last year
8. Possibility of CGG finding replacement vessel to complete Davros Extension MC3D in Carnarvon Basin may prove difficult
9. Vessel availability tightening worldwide, making it competitive to place vessels in more remote regions
10. CGG's Geo Coral started Davros Extension MC3D in December but serious mechanical issue forced vessel to suspend survey early this month
11. Norwest Energy finally received state government approvals to start 40km² Xanadu 3D survey in Perth Basin TP-15
12. Mobilisation of Synterra seismic crew expected from mid-April with acquisition of transition survey planned to start first week of May



CURRENT EXPLORATION / APPRAISAL WELLS

Offshore



Onshore

