

# WA-61-L SCARBOROUGH DRILLING AND COMPLETIONS

## CARNARVON BASIN, NORTH-WEST AUSTRALIA

Woodside is planning to submit an Environment Plan (EP) for Scarborough drilling and completions activities in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth). The Petroleum Activities Program is located in Permit Area WA-61-L in Commonwealth waters, about 374 km west-northwest of Dampier, Western Australia.

The activity is planned to occur anytime within a five-year window commencing in H2 2022, pending approvals. Relevant stakeholders will be advised of the timing once determined.

The EP will cover drilling and subsea tree installation activities for eight planned development wells and the potential for a further two additional contingency wells. Woodside may also need to intervene, workover or re-drill the wells. Subsea inspection, monitoring, maintenance and subsea infrastructure repair activities may also be undertaken.

Woodside is operator of the Scarborough field (within permit area WA-61-L) with a 73.5% interest. BHP Petroleum (North West Shelf) Pty Ltd holds the remaining 26.5% share in the field.

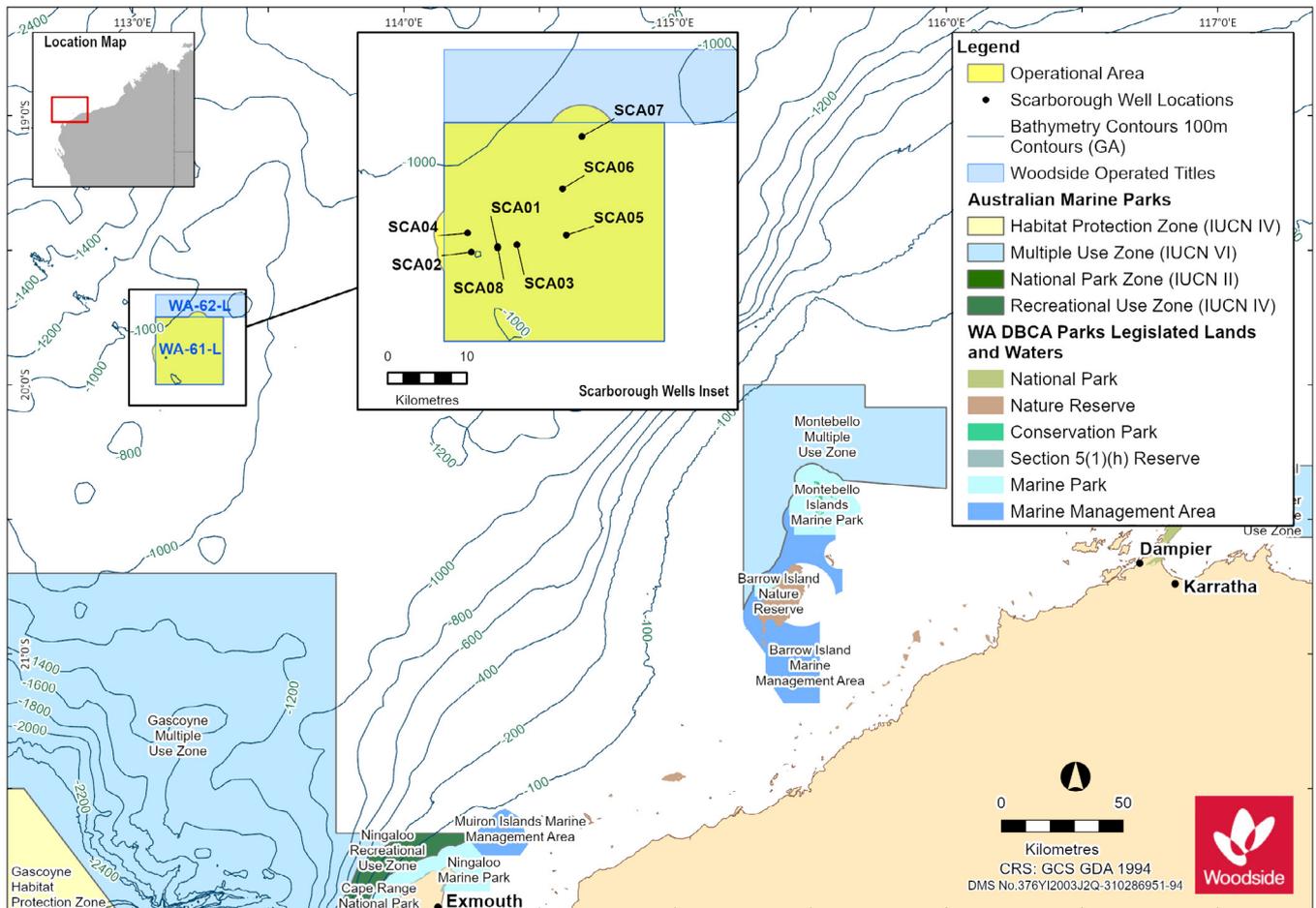


Figure 1. Proposed Scarborough Drilling and Completions Operational Area

## Proposed Activity

**Table 1 – Activity summary**

Activity	Details
<b>Earliest commencement date</b>	H2 2022 pending approvals, vessel availability and weather constraints
<b>Estimated duration</b>	50-60 days per well
<b>Operational Area</b>	4,000 m for moored mobile offshore drilling unit (MODU), 500 m for dynamically positioned mobile offshore drilling unit (DPMODU)
<b>Water depth in Operational Area</b>	Approximately 900 m – 955 m
<b>MODU</b>	DPMODU with contingency for moored MODU, depending on availability and suitability for the development well locations.
<b>Project Vessels</b>	<ul style="list-style-type: none"> <li>• Installation vessels for installing the subsea infrastructure.</li> <li>• Light well intervention vessel as an option for well intervention, subsea hardware installation or contingent activities.</li> <li>• Support vessels including installation vessel(s), anchor handling vessel(s) and general supply/support vessels.</li> </ul>
<b>Distance from Operational Area to nearest port/marina</b>	244 km north-northwest of Exmouth, 374 km west-northwest of Dampier
<b>Distance from Operational Area to nearest marine park</b>	<ul style="list-style-type: none"> <li>• 83 km north of the Gascoyne Marine Park (Cwlth)</li> <li>• 206 km north-west of Montebello Marine Park (Cwlth)</li> <li>• 208 km north-northwest of Ningaloo Marine Park (Cwlth)</li> </ul>

Drilling and completions for the development wells is expected to take approximately 50-60 days per well to complete. Subsea inspection, monitoring, maintenance and repair activities may be conducted intermittently and over short durations in the immediate vicinity of installed subsea infrastructure. Activities will be conducted 24 hours per day, seven days per week. Timing and duration of these activities is subject to change due to project schedule requirements, drill rig and vessel availability, weather and unforeseen circumstances. Technical details are outlined in Table 2.

### Project vessels

Woodside is currently considering rig options for drilling of the wells, which include a moored semi-submersible MODU, a dynamically positioned drill ship or a DPMODU. Dynamic positioning is a computer-controlled system to automatically maintain a vessel or rig's position and heading by using its own propellers and thrusters. Typically, two or three vessels will support drilling activities, with at least one vessel in the vicinity to complete standby duties, if required. Supply vessels will visit the selected MODU/drill ship at regular intervals. A subsea installation vessel will be used for the installation of the subsea infrastructure, with support from additional dedicated vessels. Support vessels are also required for inspection, monitoring, maintenance and repair activities.

### Communications with mariners

A petroleum safety zone of 500 m will be in place around the MODU and installation vessel for the duration of activities. The following Operational Areas will also apply:

- DPMODU/drillship – 500 m radius from each well centre
- Moored MODU – 4,000 m radius from each well centre.
- Installation vessel – 1500 m radius around subsea locations

Marine notices will be issued prior to activity commencement to alert vessels which may be operating in waters nearby.

### Proposed locations

Approximate development well locations for the eight planned wells are provided in Table 2. In the event the two additional contingency wells are installed, they will be also be in WA-61-L, with all activities undertaken within the relevant Operational Area.

### Implications for Stakeholders

Woodside will consult relevant stakeholders whose interests, functions, and activities may be affected by the proposed activities. We will also keep informed other stakeholders who have an identified interest in the planned activities. Woodside has undertaken an assessment to identify potential risks to the marine environment and relevant stakeholders, considering timing, duration, location and potential impacts arising from the drilling, construction and installation activities. This EP approval falls under the primary environmental approval of the Scarborough Offshore Project Proposal (OPP) and will be conducted in line with relevant requirements of the OPP. A number of mitigation and management measures will be implemented and are summarised in Table 3. Further details will be provided in the EP.

### About Scarborough

The Scarborough gas resource is located offshore, approximately 375 km west-northwest of the Burrup Peninsula and is part of the Greater Scarborough gas fields which are estimated to hold 13.0 Tcf (2C, 100%) of dry gas.

Woodside, as operator of the Scarborough Joint Venture, is proposing to develop the Scarborough gas resource through new offshore facilities connected by an approximately 430 km pipeline to a proposed expansion of the existing Pluto LNG onshore facility (Pluto Train 2).

For more information about the proposed Scarborough development, visit [woodside.com.au](http://woodside.com.au).

**Table 2 – Proposed well locations**

Activity	Water Depth (Approx. m LAT)	Latitude	Longitude	Permit Area
<b>New development wells</b>				
SCA01 well	910	19° 53' 30.499" S	113° 08' 43.568" E	WA-61-L
SCA02 well	912	19° 53' 48.471" S	113° 06' 55.261" E	WA-61-L
SCA03 well	912	19° 53' 18.551" S	113° 10' 03.300" E	WA-61-L
SCA04 well	918	19° 52' 30.359" S	113° 06' 41.412" E	WA-61-L
SCA05 well	918	19° 52' 38.718" S	113° 13' 24.437" E	WA-61-L
SCA06 well	902	19° 49' 27.763" S	113° 13' 08.300" E	WA-61-L
SCA07 well	907	19° 45' 52.900" S	113° 14' 27.449" E	WA-61-L
SCA08 well	909	19° 53' 27.254" S	113° 08' 43.647" E	WA-61-L
<b>Contingent wells</b>	Within permit area WA-61-L			

**Table 3 – Summary of key risks and/or impacts and management measures.**

Potential Risk and/or Impact	Mitigation and/or Management Measure
<b>Planned activities</b>	
Interests of relevant stakeholders with respect to: <ul style="list-style-type: none"> <li>Defence activities</li> <li>Petroleum activities</li> <li>Commercial fishing activities</li> <li>Shipping activities</li> </ul>	<ul style="list-style-type: none"> <li>Consultation with relevant petroleum titleholders, commercial fishers and their representative organisations, and government departments and agencies to inform decision making for the proposed activity and development of the EP.</li> <li>Advice to relevant stakeholders prior to the commencement of activities.</li> <li>All vessels within the Scarborough activity area will adhere to the navigation safety requirements including the Navigation Act 2012 and any subsequent Marine Orders.</li> </ul>
Chemical use	<ul style="list-style-type: none"> <li>Chemicals will be selected with the lowest practicable environmental impacts and risks subject to technical constraints.</li> </ul>
Marine fauna interactions	<ul style="list-style-type: none"> <li>Vessel masters will implement interaction management actions in accordance with the EPBC Regulations 2000.</li> </ul>
Marine discharges	<ul style="list-style-type: none"> <li>All routine marine discharges will be managed according to legislative and regulatory requirements and Woodside's Environmental Performance Standards where applicable.</li> <li>Drill Cuttings returned to the MODU will only be discharged if requirements relating to treatment and discharge location in the EP are met.</li> </ul>
Seabed disturbance	<ul style="list-style-type: none"> <li>Infrastructure will be positioned on the seabed within design footprint to reduce seabed disturbance.</li> <li>MODU mooring analysis and anchor deployment in accordance with internal standards.</li> <li>No anchoring of support and installation vessels during drilling, construction and installation activities.</li> </ul>
Vessel interaction	<ul style="list-style-type: none"> <li>Woodside will notify relevant fishery stakeholders and government maritime safety agencies of specific start and end dates, specific vessel-on-location dates and any exclusion zones prior to commencement of the activity.</li> <li>A 500 m radius petroleum safety zone will be in place around the MODU or drill ship and installation vessel for the duration of activities.</li> <li>Commercial fishers and other marine users are permitted to use but should take care when entering the Operational Area around the MODU or drill ship. The Operational Area varies depending on the activity and vessel ranging from a 500 m radius for a DPMODU or 4000 m radius for a moored MODU, and a 1500 m radius around subsea installation vessel.</li> </ul>
Waste management	<ul style="list-style-type: none"> <li>Waste generated on the vessels will be managed in accordance with legislative requirements and a Waste Management Plan.</li> <li>Wastes will be managed and disposed of in a safe and environmentally responsible manner that prevents accidental loss to the environment.</li> <li>Wastes transported onshore will be sent to appropriate recycling or disposal facilities by a licensed waste contractor.</li> </ul>

Potential Risk and/or Impact	Mitigation and/or Management Measure
<b>Unplanned activities</b>	
Hydrocarbon release	<ul style="list-style-type: none"> <li>Valid and appropriate Shipboard Oil Pollution Emergency Plan (SOPEP) or Shipboard Marine Pollution Emergency Plan (SMPEP) for all operating vessels.</li> <li>Environment Plans and Oil Pollution Emergency Plans (OPEP) will be accepted and in place, appropriate to the credible hydrocarbon spill scenario associated with activities.</li> <li>Appropriate refuelling procedures and equipment will be used to prevent spills to the marine environment.</li> <li>Well Operations Management Plan accepted and in place for all wells, in accordance with the Offshore Petroleum and Greenhouse Gas Storage Act requirements, which include: <ul style="list-style-type: none"> <li>Blowout Preventer (BOP) installation during drilling operations.</li> <li>Regular testing of BOP.</li> </ul> </li> </ul>
Introduction of invasive marine species	<ul style="list-style-type: none"> <li>All vessels will be assessed and managed as appropriate to prevent the introduction of invasive marine species.</li> <li>Compliance with Australian biosecurity requirements and guidance.</li> <li>Contracted vessels comply with Australian ballast water requirements.</li> </ul>

### Providing Feedback

Our intent is to minimise environmental and social impacts associated with the proposed activities, and we are seeking any interest or comments you may have to inform our decision making. If you would like to comment on the proposed activities outlined in this information sheet, or would like additional information, please contact Woodside before 2 August 2021.

Please note that your feedback and our response will be included in our Environment Plan for the proposed activity, which will be submitted to the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) for acceptance in accordance with the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Cth).

Please let us know if your feedback for this activity is sensitive and we will make this known to NOPSEMA upon submission of the Environment Plan for this information to remain confidential to NOPSEMA.

Woodside Energy Ltd

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*Please note that stakeholder feedback will be communicated to NOPSEMA as required under legislation. Woodside will communicate any material changes to the proposed activity to affected stakeholders as they arise.*