

VIC/L22, VIC/PL33, (MINERVA) DECOMMISSIONING REPORT

December 2022

MINERVA DECOMMISSIONING Progress report

Purpose

This annual decommissioning report provides a progress update on Woodside Energy (Victoria) Pty Ltd's decommissioning activities for the Minerva Field from 1 January 2022 to 31 December 2022, including planning towards and progress with undertaking the actions in accordance with the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA) General Direction 831.

Description of Facilities

The offshore Minerva gas field is located in graticular block VIC/L22 and comprises the Minerva subsea pipeline which runs from the Minerva wells to the boundary of the Victorian State Waters. Production licence VIC/PL33 is located in Commonwealth waters, approximately 11 km south, south-west of the township of Port Campbell, Victoria.

The Minerva Gas Field was discovered in March 1993. Production of the field ceased in September 2019 and the Minerva-3 and Minerva-4 wells were subsequently suspended.

The facilities encompass:

- four Minerva wells;
- associated subsea infrastructure in production licence VIC/L22;
- subsea pipeline (VIC/PL33) and piggyback umbilical bundle.

Since cessation, the following activities have occurred:

- pipeline and flowlines flushed and preserved;
- well barriers isolated and tested;
- disconnection of the flowlines from the wells and plugging with pressure retaining plugs;
- subsea facilities integrity inspection completed with no issues identified.

Titleholders

Following the merger between Woodside and BHP on 1 June 2022, the Titleholders for VIC/L22 and VIC/PL33 are Woodside Energy (Victoria) Pty Ltd as Operator with joint venture partner Cooper Energy (MF) Pty Ltd.

Once accepted by NOPSEMA, all Titleholders will publish this report on their website.

Legal Obligations

Until such time as decommissioning activities have been completed Woodside will maintain property on the titles to ensure removal of the property is not precluded, as per the Woodside Minerva Subsea Integrity Management Plan.

At the completion of the field decommissioning activities, Woodside will provide, to the satisfaction of NOPSEMA, for the conservation and protection of the natural resources in the title areas within 12 months after property is removed and make good any damage to the seabed or subsoil in the title areas caused by any person engaged or concerned in the operations.

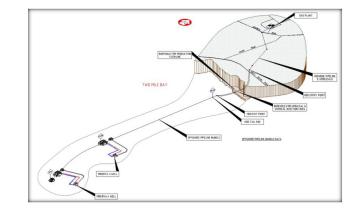


Figure 1. Minerva Infrastructure Schematic

Decommissioning Progress in 2022

Woodside is progressing an Environmental Plan Strategy to meet its obligations under the *Offshore Petroleum Greenhouse Gas Storage Act.* The Strategy separates Environmental Plans based on activity type, complexity and location.

Two Environment Plans are proposed to be submitted to NOPSEMA for the decommissioning of the Minerva field. Following studies conducted in 2022, all equipment is proposed to be removed from the field.

The *Minerva Field Management and Well Plug and Abandonment* (*P&A*) *Environment Plan* covers the following scope:

- P&A of four Minerva wells; and
- continue field management scopes which comprise inspection, maintenance, monitoring and repair (IMMR) and remotely operated vehicle (ROV) surveys on the remaining subsea infrastructure, as required.

The Environment Plan was submitted in June 2022. It remains under assessment, with Titleholder, and is anticipated to be resubmitted around Q1 2023.

The *Minerva Facilities Decommissioning Environment Plan* covers the following scope:

- remove all subsea infrastructure within the Minerva field in Permit Area VIC/L22; and
- remove pipeline and pipeline bundle within Commonwealth waters in pipeline licence VIC/PL33

The Environment Plan is under development and is anticipated to be submitted around Q1 2023.

During 2022, the following other activities were undertaken:

- engineering studies to support the decommissioning strategy; and
- contaminants analysis of onshore and offshore pipeline spools.

Decommissioning Plan in 2023

During 2023, the following activities are planned:

- submission and acceptance of regulatory permissioning documents;
- tender development for the well P&A scope and issue to the market;
- tender development for the facilities removal scope and issue to the market;
- tender evaluations and contract awards; and
- equipment procurement and early works in advance of full decommissioning activities, as required.

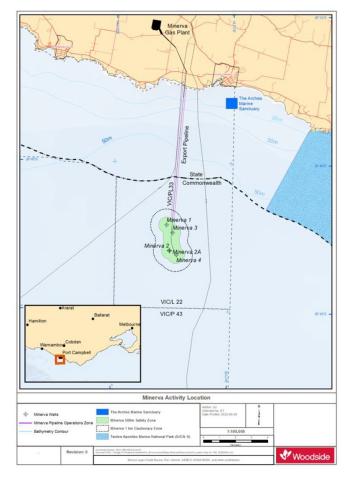


Figure 2. Minerva Operational Area

General Direction 831

Direction	Key Tasks	Progress in CY 2022	Look-ahead for CY 2023		
Direction 1	WOMP submission	 WOMP submitted June 2022, conditionally accepted 	 WOMP update with detailed design on well kill methods completed 		
Plug or close off, to the satisfaction of NOPSEMA, all wells made in the title area by any person engaged or concerned in operations authorised by the title as soon as practicable and no later than 30 June 2025.		November 2022			
	P&A EP submission	 P&A EP submitted 30 June 2022, RFFWI received August 2022 	 P&A EP resubmission planned for around Q1/2 2023, acceptance around Q3 2023. This may be delayed through the extended consultation 		
		• Updated submission delayed due to changes in scope associated with consultation updates associated with Santos NA Barossa Pty Ltd v <i>Tipakalippa</i> Federal Court ruling	period as required by change in law (Santos NA Barossa Pty Ltd v <i>Tipakalippa</i> Federal Court decision), introducing schedule risk		
	Rig contracting	 Rig availability study completed Q2 2022 	 Development of rig tender, tender evaluation and recommendation for contract award 		
		 Regional rig consortium established with other local operators to establish rig sharing agreements 	• Rig contract award around Q2 2023 (earliest)		
Direction 2 Remove, or cause to be removed, to the satisfaction		 Environment Plan Strategy and end state for equipment finalised, with all equipment proposed to be removed from the petroleum title. 	Waste management studies to be conducted		
of NOPSEMA, from the title area all property brought into that area by any person		 Technical studies conducted on pipeline removal methods 			
engaged or concerned in the operations authorised by the title as soon as practicable and no later		 Further contaminants analyses conducted on recovered offshore spools 			
than 30 June 2025	• Decommissioning EP submission and acceptance	 Facilities Decommissioning EP under development 	Submission of Facilities Decommissioning EP planned for submission around Q1/2 2023,		
		 Submission delayed due to consultation updates associated with change in law (Santos NA Barossa Pty Ltd v <i>Tipakalippa</i> Federal Court decision). 	acceptance around Q4 2023. This may be delayed through the extended consultation period as required by change in law (Santos NA Barossa Pty Ltd v <i>Tipakalippa</i> Federal Court decision), introducing schedule risk		
	• Development of other regulatory emissioning documents.	 Safety Case revision accepted January 2022 	• Submission and acceptance of Safety Case updates, as required (dependent on		
		 No Sea Dumping Permits are required as all equipment is being removed 	activity timing)		
	 Tender development, contract award 	 Development of contracting and execution strategy 	 Invitation to tender for EPRD scope developed and issued around Q2/3 2023, tender evaluation and recommendation completed 		
Direction 3 Until such time as direction 1 are complete, maintain all property on the title to NOPSEMA's satisfaction, to ensure removal of the property is not precluded.	EP development and submission	P&A and Field Management EP submitted in June 2022, detailing	 Ongoing field management activities, as required. 		
		 ongoing field management activities. Integrity of the subsea infrastructure will be managed as outlined in the Woodside Minerva Subsea Integrity Management Plan 	 No maintenance activities are planned in 2023 as 5 yearly inspections were completed in 2021. 		
Direction 4 Provide, to the satisfaction of NOPSEMA, for the conservation and protection of the natural resources in the title area within 12 months after property referred to in direction 1	EP development and submission	 Facilities Decommissioning EP developed in Q3/4 2022, detailing conservation and protection measures and how the requirements of S270 will be met 			

is removed

Direction	Key Tasks	Progress in CY 2022	Look-ahead for CY 2023	
Direction 5	• EP development and submission	Facilities Decommissioning EP	 Facilities Decommissioning EP submitted around Q1 2023, accepted around Q4 2023 	
Make good, to the satisfaction of NOPSEMA, any damage to the seabed or subsoil in the title area caused by any person engaged or concerned in the operations authorised by the title within 12 months after the property		developed in Q3/4 2022, detailing conservation and protection measures and how the requirements of S270 will be met		
Direction 6	Annual	2022 Annual report submitted	Submit annual progress report in	
Annual progress reporting until all directions have been met	Progress report	December 2022	December 2023	

Schedule

An indicative schedule of the decommissioning activities is provided below:

	2022 2023		20	24	2025	2026	
	Jan Feb Mar Apr May Jun Jul	Aug Sep Oct Nov Dec	Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec	Jan Feb Mar Apr May Jun	Jul Aug Sep Oct Nov Dec	Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec	Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Der
Regulatory Submissions							
P&A EP	Develop		Approval window				
Facilities Decommissioing EP		Develop	Approval window				
WOMP	Develop	Approval					
Additional Permissioning Documents							
Well P&A							
Preparation, tendering							
Equipment Procurement							
P&A Rig Campaign						General Direction, 30	June 2025
Execution Contractor Engagement							
Preparation, tendering							
EPRD Engineering, Procurement							
Offshore Campaign							
Facilties Removal						General Direction, 30	June 2025
General Direction Requirements							
Conservation, Protect, Remediate (as reqd)							
General Direction Annual Reporting							

Providing feedback

If you would like to comment on the proposed activities outlined in this information sheet, or would like additional information, please contact Woodside via:

E: Feedback@woodside.com.au

Toll free: 1800 442 977

