

Enterprise Wellsite

Notice of Operations - Production



Wellsite facilities preliminary concept layout

Notice of Operations – Production | Updated November 2023

Project Background

Beach Energy (Beach) supplies natural gas for the ongoing needs of Victorian homes, business and industry, through production at the Otway Gas Plant near Port Campbell. The Enterprise Project is one of Beach's projects in the Otway Offshore Basin to continue developing natural gas.

The Enterprise Project includes:

- an offshore natural gas reservoir under the seabed (see map over page)
- a natural gas well that was successfully drilled in 2020 from an onshore wellsite to the offshore gas reservoir
- a wellsite that includes the existing well head, transportable facility buildings and equipment for flowing the gas to Otway Gas Plant for processing
- a recently constructed pipeline from the wellsite to the Otway Gas Plant.

The wellsite is located approximately 4 km west of Port Campbell. Civil works and preliminary installation activities have been carried out at the wellsite. Beach is now preparing for the final construction activities that will enable the raw gas to flow to the Otway Gas Plant where it will be produced for supply to the east coast gas market.

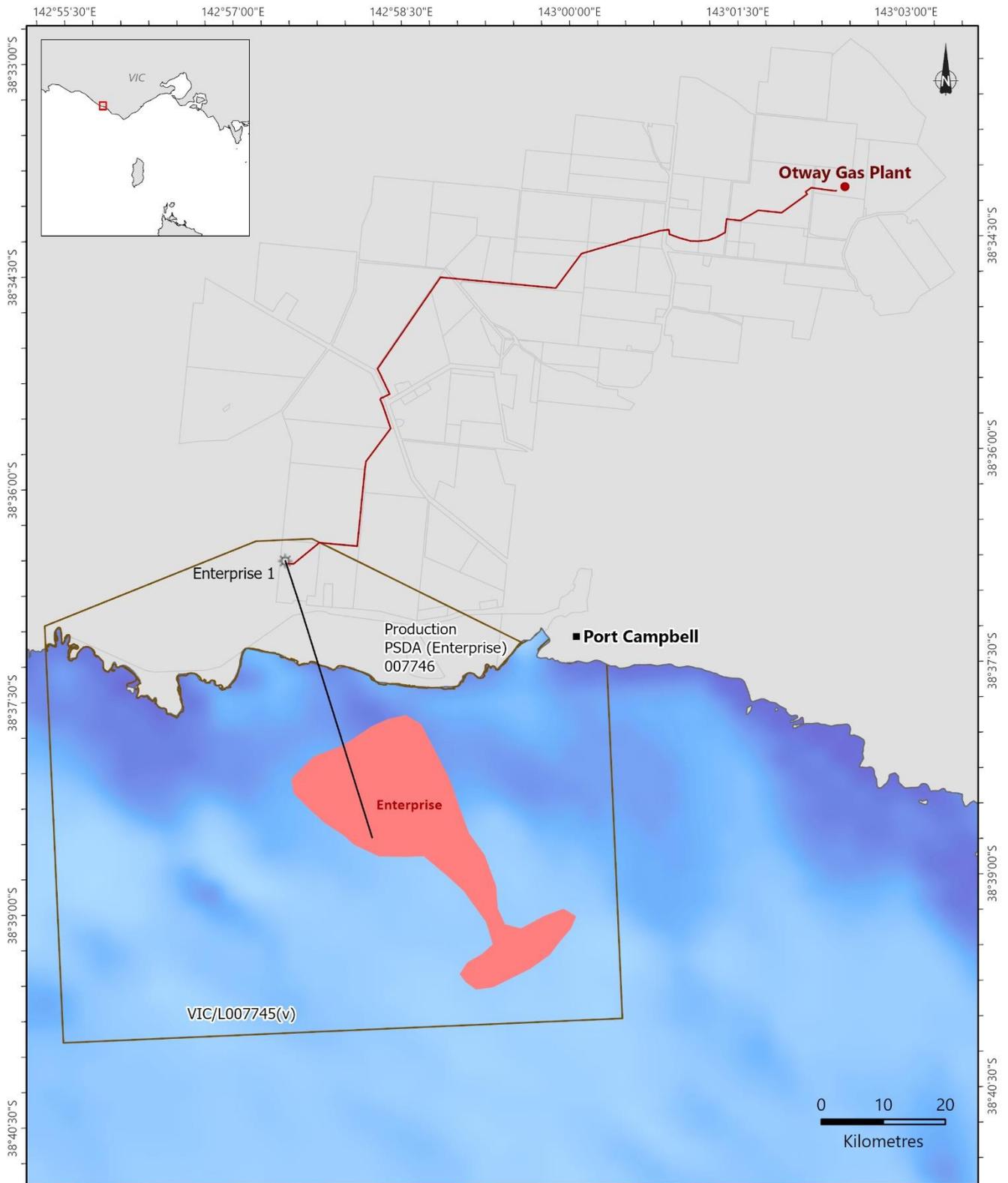
Project construction activities associated with the wellsite early works, the pipeline and the Otway Gas Plant are now largely completed and were undertaken in accordance with regulatory approvals granted by the Victorian government under other legislation and are not the subject of this Notice.

Completion of the remaining wellsite construction activities are planned to commence in early 2024. Commissioning works that involve flowing of the gas through the wellsite facilities are expected to commence in approximately May 2024. The commencement of regular production operations is expected to commence by mid-2024. All timings are subject to final regulatory approvals being received.

This Notice of Operation provides information on the proposed petroleum operation as required under section 161 (1A) of the *Petroleum Act 1998* (Act) and section 23 of the *Petroleum Regulations 2021* (Regulations).

The proposed petroleum operation includes commissioning, and the ongoing operation and maintenance of the Enterprise wellsite to deliver gas to the Otway Gas Plant for processing, via the Enterprise pipeline (PL006998).

This Notice was initially provided to relevant persons and organisations in February 2023. This update reflects amended project scheduling and provides a further opportunity for consultation before Beach submits its final plans to the regulator before flowing gas from the well for production.



GDA2020

- Enterprise Pipeline (PL006998) ■ Gas field
- Enterprise Well Path Beach Operated Permit

This map is provided as a general reference only and is not intended to be used for any other purpose. No warranty is provided in relation to the accuracy of the information contained in this map.

OT23-0053

Purpose of this notice

The Petroleum Act 1998 and related regulations require that, in the development of an Operation Plan (that includes an Environment Management Plan) for a specific petroleum activity, consultation is undertaken with relevant persons or organisations who may be affected by the activity or that have interests that may be affected by the activity in the Operation Plan.

This Notice of Operations was issued (and now updated) to meet the specific requirements of the Petroleum Act 1998 and associated regulations for the Operations phase of the Enterprise Project, that involves flowing of gas from the Enterprise reservoir through the wellsite facilities to the Otway Gas Plant for processing. A summary of the consultation must be included in the Operation Plan before it is submitted for approval by the regulator.

The operation of the pipeline and the Otway Gas Plant is not included in the scope of this notice. These activities have been addressed in separate approvals and associated consultation processes.

Operation Plan

An Operation Plan (Plan) is a document required under the Act that must be prepared by the holder of an authority (for example a petroleum exploration or production licence) in relation to a proposed 'petroleum operation'. A 'petroleum operation' is a specific activity relating to the exploration, development or production of oil or gas.

An Operation Plan identifies the risks that the operation may pose to the environment, to any member of the public and to land or property in the vicinity of the operation. It also identifies the risks to any petroleum, source of petroleum or reservoir in the vicinity of the operation.

An Operation Plan outlines what the holder of the authority (Beach Energy) will do to eliminate or minimise those risks, to rehabilitate land that will be affected by the operation, and also sets out any other matters required by the regulations.

The Operation Plan will be submitted to Earth Resources Regulation within the [Department of Energy, Environment and Climate Action \(DEECA\)](#) for approval prior to the operation commencing. By law, an authority holder must not carry out the proposed petroleum operation unless the Minister has, in writing, accepted the operations plan.

Operations at the Enterprise Wellsite

The Enterprise wellsite will operate 24 hours a day / 7 days a week. The facility will be

monitored and maintained from the Otway Gas Plant Central Control Room, located approximately 8km to the north-east.

Routine fortnightly inspections of the wellsite will be undertaken during daylight hours.

Wellsite operational activities that will be described in the Operations Plan include:

- Final commissioning works including well plug retrieval, facilities commissioning and gas pressure testing
- General site surveillance & inspections to verify site equipment integrity, conduct maintenance and verify site security
- Ongoing monitoring and maintenance of all wellsite facilities including:
 - Routine site surveillance and inspections
 - regular weed and vegetation controls
 - instrument calibration and testing
 - valve and vessel inspection and functional testing
 - wellhead servicing and testing
 - well integrity monitoring.
- Non-routine activities such as well maintenance if required may occur during the operational life of the well by specialist crews.

The wellsite activities will require access by light vehicles on a fortnightly basis. If non-routine activities are required, light trucks and semi-trailers may be necessary for equipment delivery.

Safety and the environment

Safety takes precedence in everything we do. Beach has over 60 years' experience in the oil and gas industry and our exploration, development and operations teams have extensive local and international experience. Beach personnel undertake regular competency assessments and training to ensure their knowledge and skills meet strict operational requirements.

Beach is proud to have achieved an outstanding record of eight years recordable injury free at the Otway Gas Plant in 2023. The standard of safety implemented by our workers reflects the absolute focus on effectively managing high risk activities.

In addition to conditions set out in regulatory approvals, all Beach activities, including the Enterprise Project, are undertaken in accordance with the Beach [Health and Safety Policy](#) and [Environment Policy](#), and standards and procedures set out in the Beach Operations Excellence Management System (OEMS) that includes requirements for:

- employee and contractor inductions to ensure that all personnel are aware of the OEMS and Operations Plan requirements
- incident management and reporting requirements
- emergency response procedures to ensure that emergency management arrangements are in place in the unlikely event of an emergency
- development of specific plans and procedures (e.g. Traffic Management Plan)
- personnel capability audits, ongoing training and competency compliance procedures
- audit and inspection schedule to assess that all measures are being implemented.
- Remove all above and below ground infrastructure (e.g., fencing, workshops, production skids, drainage infrastructure)
- Recontour site to original contours
- Rip compacted areas, spread topsoil and re-seed consistent with the landholder requirements
- Conduct ongoing monitoring of rehabilitation to ensure rehabilitation objectives are met

Ongoing consultation

After production commences from the wellsite, for the life of the operations, Beach will continue to consult with relevant persons or organisations who may be affected by the activity or that have interests that may be affected by the activity in the Operation Plan.

Beach has identified relevant persons or organisations following the identification and assessment of potential impacts and development of management plans, as summarized in the table below. Beach will update its database of relevant persons or organisations:

- when advised by organisations or individuals in the course of consultations
- by annual contact of residents adjacent to the wellsite access road to ensure contact records are up to date
- by undertaking a review of relevant persons organisations using desktop research, prior to any non-routine maintenance campaigns at the wellsite
- when new relevant persons or organisations advise Beach they wish to be consulted, in response to publicly advertised annual information sessions for the wellsite operations.

Beach will continue to share information with relevant persons or organisations through:

- direct engagement with the wellsite landowner and near neighbours before final construction activities commence, before commencement of operations and any major campaigns
- updates on the Beach website and Beach’s online consultation hub called Engage Beach, that also encourages questions and feedback
- updates on wellsite operations provided at: Otway Gas Plant Community Reference Group meetings each four months
- a webinar and drop-in information session at Port Campbell prior to major campaigns at the well site
- offering updates and attending meetings with Corangamite Shire council, Port Campbell Progress Group, Timboon Action Group, and

Summary of impacts and risks

The Wellsite Production Operation Plan, which includes a Well Operations Management Plan (WOMP), Environmental Management Plan (EMP) and a Rehabilitation Plan are being prepared specifically for the wellsite production operations.

In accordance with the requirements of the Petroleum Act, the Operations Plan will include an identification of the potential impacts and risk associated with the wellsite production operations to:

- the environment
- any member of the public
- land
- property; and
- petroleum, source of petroleum or reservoir.

The Operations Plan is also required to identify the management measures to be implemented to ensure that these risks and impacts are reduced so far as reasonably practicable. The potential impacts and risks, and the management measures for the Enterprise production operations are summarised in the table (pages 6, 7, 8).

Wellsite rehabilitation

Once all production activities have been completed the wellsite will be decommissioned. Beach will then work with local contractors (where possible) to ensure the rehabilitation of site to pre-construction standards in accordance with the approved Rehabilitation Plan.

- Decommission gas well in accordance with regulatory requirements
- Undertake a site assessment to determine site treatment and material disposal options (for imported hardstand materials)

Peterborough Residents Association as requested

- responding to any incoming inquiries, ensuring the notice at the wellsite gate includes the Beach Community email address and phone number.

All feedback and questions will be responded to in reasonable time, and any complaints will be managed in accordance with Beach's Community Engagement Standard and complaints procedure.

Beach will monitor the nature of any questions, concerns or complaints to identify any trends or themes that highlight additional information that may be required, and identify potential improvements in control measures or new measures that may be required.

Further information, consultation and submissions

This information sheet has been prepared to inform persons or organisations that may be affected by an activity carried out under the onshore Operation Plan and EMP or has interests that may be affected. For the offshore EP, consultation is undertaken with *Relevant Persons* whose functions, interests or activities may be affected by the activities to be carried out under the EP.

Consultation is an important part of developing EPs and EMPs as its purpose is to ensure that potential impacts have been identified and appropriate measures adopted because of the consultations. Please contact us if you would like further information, have any questions or feedback wish to consult with us.

Submissions

If you would like to make a submission about how you may be affected by the activities to be carried out under the onshore Operations Plan and EMP. Submissions must be made in writing by either email, the [Engage Beach](#) online hub, or post (contacts below) by 21 December 2023. All submissions will be assessed and where appropriate will be addressed in the Production Operation Plan prior to submission for assessment and approval by DEECA.

Consultation will continue until 21 December 2023. Beach will consider all feedback, including any concerns or objections and will explore measures to reduce any impacts and risks.

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Potential Risks or Impact	Description of Source of Risks or Impact	Beach Management Measures
Environment		
Disturbance to native flora and fauna	<ul style="list-style-type: none"> Noise and vibration sources associated with the activity such as plant, equipment and vehicles Artificial lighting that may be required at night time or during emergency situations 	<ul style="list-style-type: none"> Reducing speed limits for project vehicles to minimise noise and vibration impacts and reduce potential for vehicle fauna strikes Equipment designed to meet EPA Noise Guidelines Lighting for emergency use only. Ensure that in the unlikely event that night lighting is required that it is directed to avoid light spill Lighting remotely controlled from the Otway Gas Plant No vegetation clearance proposed for production operations
Emissions	<ul style="list-style-type: none"> Venting of gas associated with equipment maintenance processes Fugitive emissions from valves and flanges Exhaust emissions from temporary generators during campaign maintenance activities 	<ul style="list-style-type: none"> Planned maintenance schedule ensuring all equipment is maintained and operated efficiently Regular leak detection and repair surveys Recording and reporting of fuel use Reporting GHG emissions as required by legislation
Accidental release of materials and waste / Hydrocarbon and chemical spill	<ul style="list-style-type: none"> Spills or leaks for fuels or chemicals due to inappropriate handling and storage Spread of wastes due to ineffective containment, transportation and disposal Spills or leaks for fuels or chemicals due to inappropriate handling and storage 	<ul style="list-style-type: none"> Implementing appropriate storage of hazardous materials including bunding Stormwater Management Plan Waste management procedures including designated waste storage areas, waste tracking and use of licensed waste contractors. Spill clean-up and incident reporting Regular site inspections
Emergency event –equipment failure/rupture	<ul style="list-style-type: none"> Uncontrolled release of gas 	<ul style="list-style-type: none"> Equipment materials selection and design Inspection and monitoring programs Maintenance and integrity management programs Emergency shutdown systems (locally and remotely operated) Backup power supply Emergency Response Plans and procedures
Emergency event - Loss of well integrity / well blow out	<ul style="list-style-type: none"> Uncontrolled release of gas due to emergency event during well intervention activities 	<ul style="list-style-type: none"> Well design and construction including materials selection Integrity management plans Well control procedures and personnel training Well Operations Management Plan Emergency Response Plan and procedures

Potential Risks or Impact	Description of Source of Risks or Impact	Beach Management Measures
Emergency event – fire (including bushfire)	<ul style="list-style-type: none"> Bushfire threatening wellsite facilities Bushfire caused by activities at the wellsite 	<ul style="list-style-type: none"> Emergency shutdown systems (remotely operated) CFA Permit for any hot work associated with maintenance Regular site vegetation maintenance Fire prevention measures including extinguishers Fire protection and controls measures Fire and gas detection Emergency Response Plan and procedures
Any member of the public		
Disturbance to community -noise	<ul style="list-style-type: none"> Noise generated by wellsite operations (choke valve). Presence of personnel vehicles on local roads during routine operations (fortnightly inspections). 	<ul style="list-style-type: none"> Equipment designed to meet EPA Noise Guidelines Noise validation monitoring following commencement of operations Undertaking campaign maintenance activities in daylight hours as much as possible Reducing speed limits for project vehicles Ongoing engagement as applicable with near neighbors and the community with respect to campaign maintenance activities
Disturbance to community - traffic	<ul style="list-style-type: none"> Increased traffic related to wellsite campaign maintenance activities (infrequent) Generation of dust from traffic associated with wellsite operations (particularly campaign maintenance activities) 	<ul style="list-style-type: none"> Development and implementation of activity specific Traffic Management Plans Avoidance of heavy vehicle movements during school bus times Active dust suppression (e.g., water tankers) for wellsite maintenance and well intervention activities if required
Disturbance to community - visual	<ul style="list-style-type: none"> Presence of wellsite infrastructure Increased activity during campaign maintenance activities (infrequent) 	<ul style="list-style-type: none"> Perimeter fence and roadside vegetation provides visual screening for public Lighting for emergency use only. Ensure that in the unlikely event that night lighting is required that it is directed to avoid light spill Lighting remotely controlled from the Otway Gas Plant
Disturbance cultural heritage	<ul style="list-style-type: none"> No new disturbance associated with ongoing operations at the wellsite 	<ul style="list-style-type: none"> Ongoing engagement with Eastern Maar Aboriginal Corporation with respect to any new disturbance

Land and property

Potential Risks or Impact	Description of Source of Risks or Impact	Beach Management Measures
Disturbance to Port Campbell National Park (PCNP)	<ul style="list-style-type: none"> Noise generated by wellsite operations (choke valve) Noise generated by increased traffic during period maintenance campaigns Presence of additional vehicles during campaign activities impacting fauna 	<ul style="list-style-type: none"> No works to be undertaken within the PCNP Traffic management plan for campaign activities to include avoidance of the use of the Great Ocean Road and speed restrictions for Sharps Road as appropriate
Disturbance to land use operations	<ul style="list-style-type: none"> Noise generated by wellsite operations Noise generated during periodic maintenance campaigns Increased traffic during periodic maintenance campaigns Weed introduction 	<ul style="list-style-type: none"> Facilities design to meet EPA noise guidelines during operations Traffic management plans for campaign activities to include speed restrictions Weed control and chemical selection in accordance with landowner agreements All vehicles remain on designated routes and well lease area Implementation of vehicle and equipment hygiene procedures where appropriate Quarry materials to be sourced from licensed quarries if required
Ineffective rehabilitation	<ul style="list-style-type: none"> Failure to return land to previous use at the completion of production operations 	<ul style="list-style-type: none"> Development of a Rehabilitation Plan Rehabilitation completed in accordance with landowner agreement and requirements and specialist agronomist advice

Petroleum, source of petroleum or reservoir

Loss of well integrity	<ul style="list-style-type: none"> Contamination of aquifers Damage to the Enterprise reservoir 	<ul style="list-style-type: none"> Well design ensures isolation of aquifers Equipment materials selection and design Well Operations Management Plan including integrity management measures
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