



STAKEHOLDER INFORMATION

2018 OFFSHORE CAMPAIGN AUGUST 2018 UPDATE



Ocean Monarch Drilling Rig

Cooper Energy commenced the 2018 Offshore Campaign off the Victorian Coastline in the first quarter of 2018. Well workover activities in the Casino Field are complete and drilling activities in the Sole Field are nearing completion. Well abandonment in the BMG Field and Sole development pipeline and subsea installation activities remain on track to commence in the second half of 2018.

In February 2018, we provided stakeholders with a similar campaign information flyer and have provided regular updates on campaign progress since then. This update is supplementary to the information previously provided.

You are receiving this update as someone who may be interested or impacted by some, or all, of Cooper Energy's activities.

About Cooper Energy

Cooper Energy is developing existing assets at the Casino Henry and Minerva gas projects, both of which are in the Otway Basin offshore south-west Victoria and are long standing gas producers. We are also developing a new source of gas supply for south-east Australia which will be processed at the existing Orbest Gas Processing Facility as part of the Sole Gas Project, due to commence operations in 2019.

Cooper Energy is committed to operating with care for the safety of the people, communities and environments in which we conduct our activities. We will undertake all our activities with the highest of integrity by striving to be consistent; staying true to our values; and being accountable for our actions.



Silver Star



Skandi Acergy



Seven Oceans Pipelay Vessel

Location

Well (depth)	Activity Type	Latitude/Longitude
Casino-5 (70 m)	Workover	38° 47' 43.68" S 142° 44' 44.60" E
Sole-2 (125 m)	Abandonment	38° 06' 13.10" S 149° 00' 33.51" E
Sole-3 (125 m)	Drilling	38° 06' 01.18" S 149° 00' 30.80" E
Sole-4 (125 m)	Drilling	38° 06' 0.06" S 149° 00' 31.67" E
Basker-2, -3, -4, -5 Basker-7 (150 m)	Abandonment	38° 17' 58.51" S 148° 42' 24.72" E
Basker-6 (265 m)	Abandonment	38° 19' 17.54" S 148° 43' 54.70" E
Manta-2A (135 m)	Abandonment	38° 16' 38.94" S 148° 42' 58.58" E

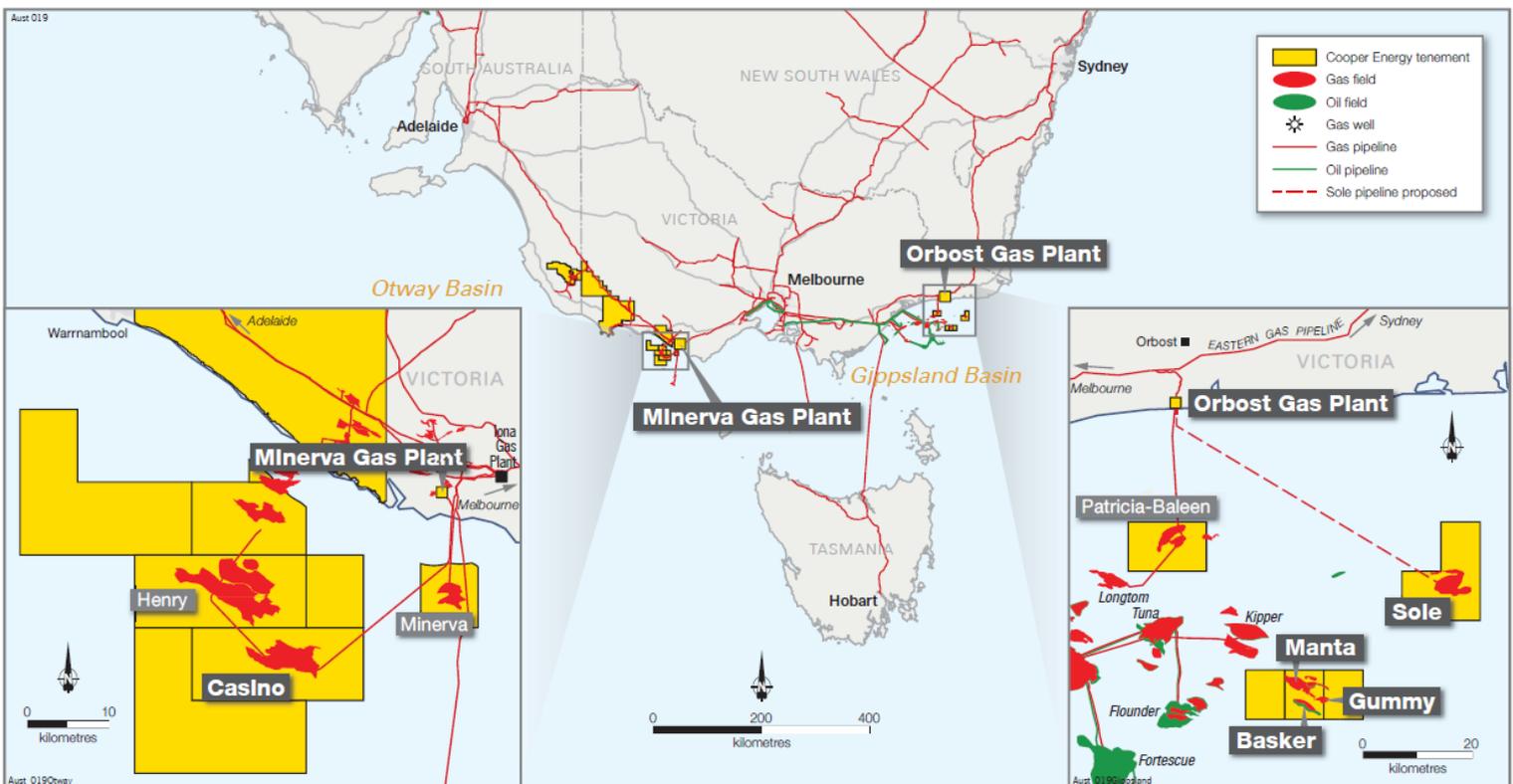
GDA94, UTM Zone 55

Activity Location

Casino-5 is located ~ 30 km southwest of Port Campbell, Victoria in water depths of ~ 70 m.

The Sole gas field is located ~ 35 km south of Sydenham Inlet on the East Gippsland coast at a depth of ~ 125 m. The proposed Sole gas pipeline and umbilical will run from the East Gippsland coastline near the Orbost Gas Processing Facility to the Sole gas field and will be ~ 65 km long.

The existing BMG Development is located ~ 52 km south of Cape Conran and lies in water depths of 135 m to 265 m.



Location of the Drill Rig related activities and Sole Pipeline associated with the 2018 Offshore Campaign

Schedule

23/2/2018	↓	Campaign commenced (Casino Field)
24/4/2018		Casino-5 workover completed
29/4/2018		Sole-3 and 4 drilling commenced
07/08/2018		Sole-2 well abandonment
15/8/2018		Drilling rig to Esso
15/9/2018		Sole pipeline installation activities commence
Q4 2018		Drilling rig returns to commence BMG well abandonment
Q1 2019		Sole Field activity finishes
Q1 2019		BMG well abandonment activities finish

Activity Timing

Well workover activities at the Casino-5 well are complete. Drilling and abandonment activities within the Sole Field commenced in April 2018 and are expected to be completed in August 2018. The drilling rig will then be utilised by Esso for approximately two months. Subject to regulatory approvals, it is planned for the drilling rig to return to Cooper Energy in Q4 2018 to commence well abandonment activities in the BMG Field. Should approvals be delayed, then it is anticipated that this work will be carried out in a future campaign which will be the subject of a further information update.

The Sole gas pipeline installation activities are planned to commence mid-September 2018 and take ~ 6 months to complete.

The timing and order of activities may vary slightly and is contingent on regulatory approvals, environmental sensitivities, joint venture approvals, weather, contingency operations and rig/vessel schedules.

Campaign Overview

Drill Rig and Support Vessels

All well workover, drilling and abandonment activities are being undertaken by a mobile offshore drilling unit (drilling rig) called the *Ocean Monarch*. The drilling rig has also been supported by three (3) support vessels: Far Senator, Far Statesman and Far Saracen. In the second quarter of 2018 the Far Statesman left the project and was replaced by the Sea Swan.

Sole Pipeline and Subsea Facilities Installation

The pipeline and subsea facilities installation activities will be undertaken from the *Seven Oceans* vessel (pipelay activities) and the *Skandi Acergy* vessel (umbilical installation) and will be supported by at least one other support vessel. The Silver Star (dive vessel) and a further support vessel will undertake nearshore pipeline dewatering and survey activities along the pipeline route.

Project Update

Casino-5 Well Workover

Cooper Energy completed the Casino-5 well workover in April 2018 and the field returned to normal operations. The pre-lay anchors described in the February 2018 stakeholder update were removed from the Casino Field in May 2018.

BMG Well Abandonment Activities

The scope of the planned activities includes the abandonment of up to seven (7) subsea wells. The Environment Plan for the activities was accepted by the regulator in June 2018.

It is currently planned to leave the wellheads in place until the next phase of field abandonment which will involve the decommissioning of subsea infrastructure. Subsea trees may also be left in-field until the next phase of decommissioning which will be the subject of a separate Environment Plan. The existing PSZ (Gazettal Notice: A443819) will remain around the BMG wells until all infrastructure is decommissioned.

Campaign Vessel / Rig details

Drilling Rig call sign:

- Ocean Monarch – AUQE

Anchor and Supply Support Vessel call signs:

- Far Senator – LFSD3
- Far Saracen – LAOQ3
- Sea Swan – 5BCF4

Sole Pipelay activity vessel call signs:

- Silver Star – VJD3650
- Seven Oceans – MQND3
- Skandi Acergy – 2BEJ5

Sole Development Project

Drilling activities for the Sole-3 and Sole-4 wells commenced in April 2018 and were completed in early August 2018. A 500 m PSZ was gazetted for the Sole-3 and Sole-4 wells on 30 April 2018 (Gazettal Notice: A601713). The new wells will be shut-in until they are connected to the Sole Pipeline.

The abandonment of the Sole-2 well will also be undertaken in August 2018. The well will be plugged to permanently isolate the reservoir. The wellhead for Sole-2 may remain in place, to be decommissioned in a future campaign. The wellhead and associated guide base is ~ 3m in diameter and sits ~ 4m above the seabed. The Sole-2 well is located within the 500 m PSZ gazetted for Sole-3 and Sole-4 wells. All wells are in 125 m of water.

Nearshore pipeline pre-lay activities near the Orbest Gas Processing Facility commenced in 2017; horizontal directional drilling was undertaken to avoid shoreline habitat and was completed in Q1 2018. A 500 m length of the pipeline tail is currently laid on the seabed approximately 400 m from the coastline. Although over trawlable, this tail may be a snagging point until the pipeline is complete, so marine users are asked to avoid the area. Once complete by end of Q1 2019, the pipeline will be over trawlable. The well control umbilical will be laid next to the pipeline and will be trenched beneath the seabed to reduce the risk of interference with fishing activities.

Pipeline and umbilical installation activities involving the Seven Oceans and the Skandi Acergy are planned to commence in October 2018 and take approximately 6 months to complete. Some preparatory activities are planned to be undertaken during September 2018 using a dive support vessel (Silver Star).

The activities will be undertaken in accordance with an Environment Plan. The Environment Plan was accepted by NOPSEMA in July 2018 and is under assessment with the Regulator for Victorian State waters.



Regulatory Requirements

Environment Plans

Prior to any petroleum related activities in Commonwealth waters commencing, an Environment Plan must be accepted by the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA). In Victorian State waters, an Environment Plan must be submitted to the Department of Economic Development, Jobs, Transport and Resources (DEDJTR).

The following offshore Environment Plans (EP) have been assessed and accepted by the Regulator/s:

- Sole Development HDD EP
- Casino-5 Well Intervention and Workover EP
- Sole-3 & 4 Drilling and Sole-2 Well Abandonment EP
- BMG Well Abandonment (Phase 1) EP
- Sole Development Pipeline and Subsea Infrastructure Installation EP (*pending acceptance by DEDJTR*)

Environment Plan summaries are published on the NOPSEMA website at:

<https://www.nopsema.gov.au/environmental-management/activity-status-and-summaries/>

The summaries contain information regarding each campaign including risk assessments and control measures to be utilised to ensure any risks and impacts to the environment are as low as reasonable practicable.

Oil Pollution Emergency Plans (OPEPs)

Cooper Energy's Oil Pollution Emergency Plan(s) define spill response options which may be applied to a spill event. The selected spill response option(s) would depend upon the size and type of spill; environmental sensitivities within the spill path; prevailing weather conditions; access restrictions and available resources.

As hydrocarbons at Sole and Casino are predominantly dry gas, possible spill scenarios are unlikely to result in widespread impacts. Spill modelling and analysis show impacts would be limited to the surface waters in the immediate vicinity of the well only. An accidental release of vessel marine diesel may result in a larger spill that could impact the nearby coastline. Information on the scenarios and control measures in place are available in the respective Environment Plan Summaries.

A loss of well control scenario at BMG could see an oil spill reach the coastline. The likelihood of such a scenario is extremely low with the control measures in place. As a precaution, Cooper Energy have developed the BMG OPEP to cover the scenario and have worked with the relevant State and Commonwealth response authorities. The BMG OPEP interfaces with national, state and industry response plans including the Australian Government via AMSA (NATPLAN), the Victorian Government (Maritime Emergencies (non-search and rescue) Plan), the Tasmanian Government (TASPLAN), the NSW Government (NSW Marine Oil and Chemical Spill Contingency Plan) and the Australian Oil industry's Australian Marine Oil Spill Plan (AMOSPLAN).

Consultation

Cooper Energy believes stakeholder consultation goes beyond simply informing individuals or groups. We want to provide an opportunity for open communication that promotes integration of stakeholder interests into the decision-making process. As such we invite feedback on your interests and welcome the opportunity for face-to-face meetings.

If you require further information or copies of the previous (September 2017 and February 2018) brochures, please visit Cooper Energy's Community page on our website www.cooperenergy.com.au or contact us by email at stakeholder@cooperenergy.com.au or on (08) 6556 2101.

Cooper Energy will continue to keep interested stakeholders informed of the proposed activities throughout the planning phase and into the operational phase. This information flyer will be followed by more targeted information closer to the time each activity occurs.

We appreciate your time in providing feedback, however, if you do not wish to provide feedback there is no need to do so. If you would prefer not to be included in further consultation activities, please advise us and we will remove your name from our database.

Level 8, 70 Franklin Street
Adelaide, SA 5000
www.cooperenergy.com.au

