

OVERVIEW

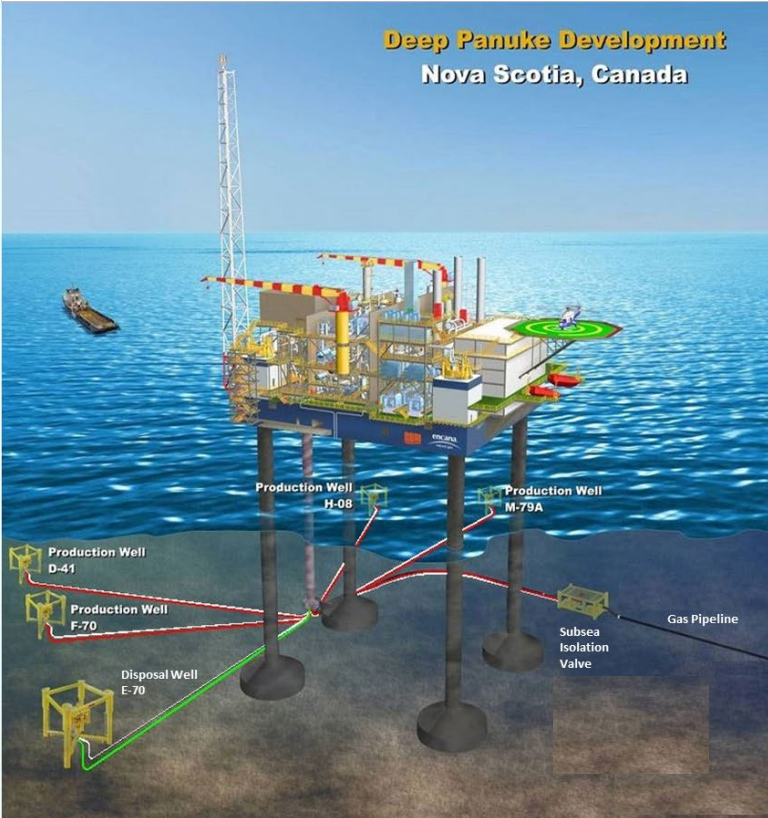
Ovintiv Canada ULC (formerly Encana Corporation) is the owner and operator of the Deep Panuke natural gas development, located in the marine environment approximately 175 kilometres offshore Nova Scotia. The development included facilities required to produce natural gas from the Deep Panuke field, such as an offshore production platform, subsea wells, flowlines, control umbilicals and protection structures for subsea equipment. Natural gas was processed offshore and transported via a subsea pipeline to shore near Goldboro, Nova Scotia for further transport to markets using the Maritimes & Northeast Pipeline. Production from Deep Panuke permanently ceased on May 7, 2018 and decommissioning activities will be completed in 2020 (except for post-abandonment monitoring).

DECOMMISSIONING PROCESS

The decommissioning of the Deep Panuke development involves the following activities:

- Decommissioning of the offshore production platform, subsea structures, flowlines, umbilicals, gas pipeline, and onshore facilities
- Well plugging and abandonment and subsea structure removal
- Offshore platform removal and final field survey

Deep Panuke Development Nova Scotia, Canada	
<p>Wells</p> <ul style="list-style-type: none"> • Plug and abandon four production wells • Plug and abandon one disposal well • Remove subsea production trees 	<p>Gas Pipeline</p> <ul style="list-style-type: none"> • Flush and clean gas pipeline • Remove subsea isolation valve • Remove above ground onshore facilities • Abandon gas pipeline in place
<p>Subsea Facilities</p> <ul style="list-style-type: none"> • Flush and clean flowlines • Remove wellhead protection structures • Disconnect flowlines and umbilicals; abandon in place 	<p>Production Platform</p> <ul style="list-style-type: none"> • Flush and clean • Remove



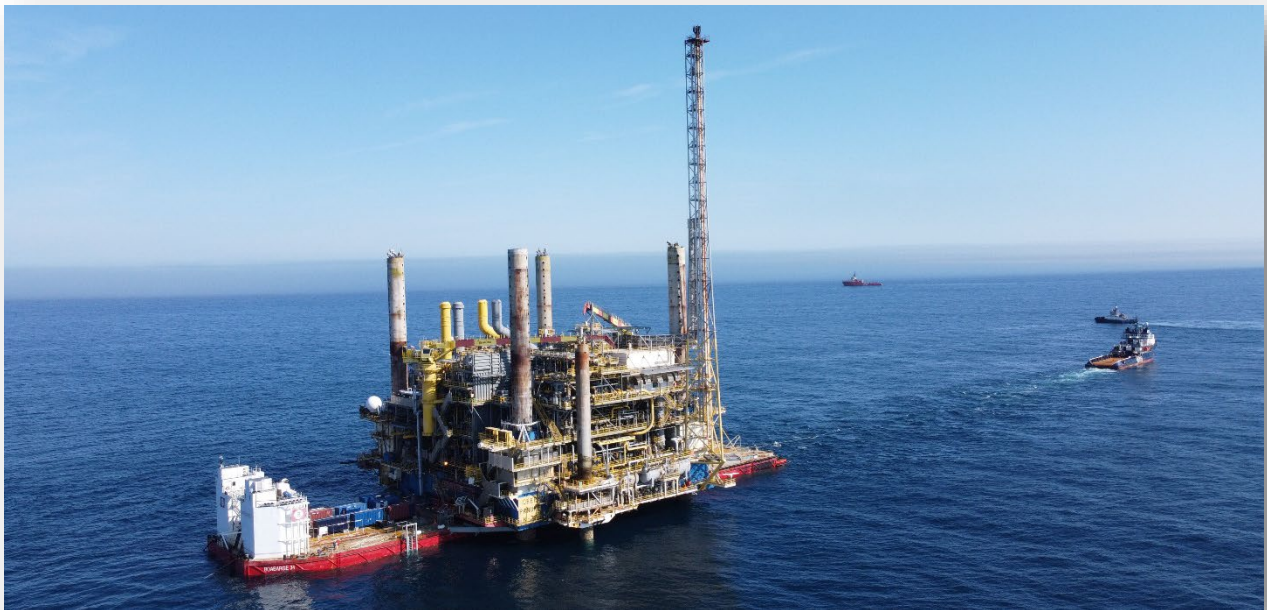
PRODUCTION PLATFORM DEINSTALLATION

The Deep Panuke production platform was deinstalled in July by Kvaerner Canada with the Boabarge 34 and five support/tug vessels. The deinstallation process was essentially a reverse of the platform installation operations in 2011.

The barge arrived at the Deep Panuke field on July 16. The production platform was jacked downward onto the barge. The leg jacking system retracted the legs from the seabed and the production platform was secured to the barge for transport. The barge/platform departed the Deep Panuke field on July 19 on tow to Halifax. They arrived in Halifax Harbour on July 21. The platform will then be taken to a final destination (yet to be determined) for re-use or recycling.



Boabarge 34 being positioned under Deep Panuke platform



Deep Panuke platform on Boabarge 34 prior to final leg extraction



Deep Panuke platform lowered onto Boabarge 34 with legs lifted



Deep Panuke platform on Boabarge 34 arriving in Halifax Harbour



Deep Panuke platform on Boabarge 34 arrived at Woodside, Halifax

WELL PLUG AND ABANDONMENT PROGRAM

The Deep Panuke well plug and abandonment program was completed in August with the Noble Regina Allen mobile offshore drilling unit and its support vessels. The four Deep Panuke production wells and one disposal well have been permanently plugged and abandoned. The Noble Regina Allen was towed back to Halifax at the end of the program and arrived in Halifax harbour on August 8, 2020.



Noble Regina Allen working on plug and abandonment of well F-70

ONSHORE FACILITIES REMOVAL AND RESTORATION

In the summer of 2019, the Deep Panuke gas pipeline was flushed and filled with clean seawater, the onshore portion of the pipeline (located near Goldboro, Nova Scotia) was dewatered, and the pipeline landfall site was restored and re-vegetated (including the previous gravel pad, fence and no anchor sign).

Between July 20 and August 7, 2020, the following work was completed:

- Grout plugs were installed in the pipeline at the Highway 316 crossing and the Sable Road crossing to prevent ground subsidence and unnatural drainage of wet areas as the pipeline corrodes and weakens.
- All aboveground structures at the pipeline terminus site were removed, reused or recycled where possible, or sent to approved disposal facilities.

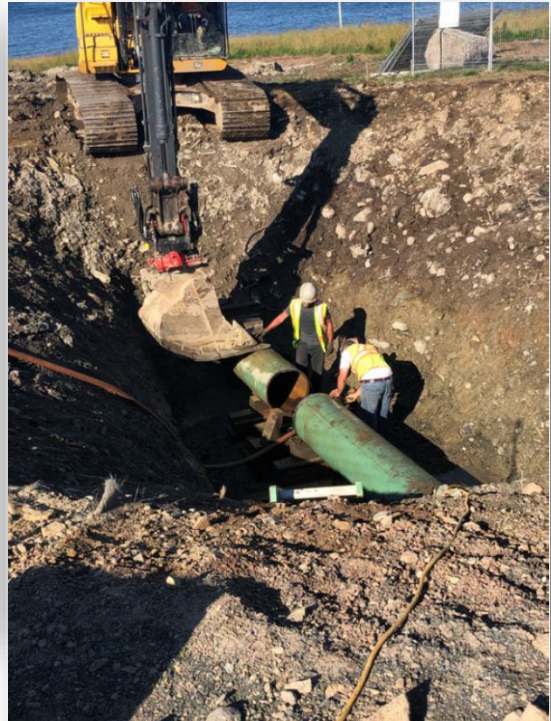
The terminus site and adjacent parking lot, as well as all newly excavated areas for grout plug installation were restored to natural grade. They will be re-vegetated with native species seeds/transplants in mid-September after decommissioning work on the adjacent Maritimes and Northeast Pipeline facilities has been completed. The access road will be left as is since it is used by Maritimes and Northeast Pipeline to access their assets. There was no disturbance of wetlands, watercourses, or plant species at risk as a result of this work.



Onshore Portion of the Deep Panuke Gas Pipeline



Pipe grouting in progress, north side of Highway 316



Cut pipe removal on south side of Highway 316 in preparation for grouting and capping



East side of Sable Road, pipeline cap welded



Grouting of the Sable Road crossing



West side of Sable Road backfilled prior to re-vegetation



East side of Sable Road backfilled prior to re-vegetation



South side (background) of Highway 316 backfilled prior to re-vegetation



**Pipeline terminus infrastructure removal and site grading complete
(Maritimes & Northeast Pipeline facilities in the background)**

SUBSEA STRUCTURES REMOVAL

The subsea structure removal program will be conducted using the DOF Subsea construction vessel, Skandi Neptune. It will include the following work:

- Removal of the five wellhead protection structures and pipeline subsea isolation valve
- Cutting and removal of the five well conductor/casing strings

As-left visual subsea surveys will be conducted where active abandonment works occurred.

The program is expected to start on September 10 and to last approximately one month.



DOF Subsea Skandi Neptune



Wellhead protection structure



Subsea isolation valve structure

SCHEDULE

Activity	Target	Estimated Duration
Gas Pipeline and Onshore		
Gas pipeline flushing and pigging	Completed (June-July 2019)	1 month (actual)
Gas pipeline offshore disconnects	Completed (August 2019)	1 week (actual)
Onshore facilities removal and restoration	Completed except for re-vegetation to take place mid-September 2020	1 month
Subsea		
Flowline flushing and cleaning	Completed (September 2019)	2 weeks (actual)
Flowline/umbilical disconnects at wells and platform	Completed (March-May 2020)	7 weeks (actual)
Subsea structures removal	September-October 2020	1 month
Well Plug and Abandonment		
Offshore execution	Completed (February-August 2020)	6 months
Production Platform		
Platform decommissioning	Completed (July 2020)	-
Platform de-installation	Completed (July 2020)	2 weeks

CONTACTS

A key component of this information update is to provide up-to-date information on key activities. Ovintiv is available to meet with interested groups that would like to discuss potential effects, concerns, and interests related to the decommissioning activities so that these may be considered in the decommissioning planning process.

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Also visit Ovintiv’s Deep Panuke website for more information, including business opportunities:
<https://www.ovintiv.com/deep-panuke/>