

#### Deep Panuke Information Update | January 2020



### **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 includes facilities required to produce natural gas from the Deep Panuke field, such as the 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 the work required for decommissioning activities is underway.

## **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





# ENCANA BECOMES OVINTIV

On January 24, 2020, Encana Corporation announced they had completed a previously announced series of reorganization transactions, resulting in the company: (i) establishing its corporate domicile in the U.S.; and (ii) rebranding under the name Ovintiv Inc.

Ovintiv's head office will be located in Denver, Colorado. Ovintiv will continue to run its day-today activities in the same manner as before — maintaining its Canadian employees, offices and assets.

As part of the reorganization, Encana Corporation has changed its name to Ovintiv Canada ULC. The name change will have no impact on Deep Panuke operations. Ovintiv Canada ULC will remain based in Calgary with a field office in Nova Scotia, as well as field offices in Alberta and British Columbia, and will continue to own and operate its existing portfolio of Canadian crude oil, natural gas liquids, condensate and natural gas properties and related assets.







# WELL PLUGGING AND ABANDONMENT PROGRAM

Ovintiv is about to begin the well plugging and abandonment program to permanently plug and abandon the four Deep Panuke production wells and one disposal well. The program will be conducted with the following rig and vessels (see photos below):

- Noble Regina Allen mobile offshore drilling unit; and
  - three support vessels:
    - the Atlantic Tern;
    - the Atlantic Osprey; and
    - the Siem Commander.



Noble Regina Allen in Halifax Harbour (left); Atlantic Osprey (top right); Siem Commander (bottom right)

Depending on weather conditions, the Noble Regina Allen is expected to be towed from Halifax harbour to the first well (D-41) in early February (see tow map below).

Well plugging and abandonment operations are expected to last approximately five months in total.



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Noble Regina Allen Tow Route

Each well will be abandoned in compliance with applicable regulatory requirements by installing a series of downhole mechanical and cement plugs as permanent barriers (between approximately 400 m and 1,000 m of total cement plug length depending on the wells). The producing (or disposal) zones will be isolated from other formations, and additional isolation plugs will be installed where necessary. The well subsea trees (each weighing approximately 41 tonnes) will be recovered and recycled. All piping will be cut below the seabed to ensure that there are no residual snagging hazards.



**Typical Subsea Tree** 





#### Noble Regina Allen in Halifax Harbour

# 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	May-June 2020	1 month
Subsea		
Flowline flushing and cleaning	Completed (September 2019)	2 weeks (actual)
Remaining flowline disconnects at wells	Q2 2020	2 weeks
Flowline disconnects at platform	Q2 2020	2-3 weeks
Subsea structures removal	Q3 2020	3-4 weeks
Well Plugging and Abandonment		
Offshore execution	Beginning February 2020	5 months
Production Platform		
Platform decommissioning	Ongoing	-
Platform de-install	July-August 2020	1 week



## 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.

For additional information, please feel free to contact:

General Inquiries dpinfo@ovintiv.com

Jay Hartling Advisor, Indigenous Relations jay.hartling@gmail.com

Alicia Fancey Engagement Support alicia.fancey@stantec.com



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