

# Lahee Classification

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Guideline PNG022

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Governing Legislation:

Act: *The Oil and Gas Conservation Act*

Regulation: *The Oil and Gas Conservation Regulations, 2012*

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### Record of Change

<b>Revision</b>	<b>Date</b>	<b>Author</b>	<b>Description</b>
0	September, 2015	PNG	Draft
1.0	November, 2015	PNG	Live Version, Updated Guideline Number

## Lahee Classification

Lahee Classification is a Federal classification of a well based on set-back distances from offsetting potential producing or producing wells within the same stratigraphic unit.

To complete the well license application process within the Ministry of the Economy's (ECON) Integrated Resource Information System (IRIS) users must be able to identify the Lahee Classification for each proposed well.

## Governing Legislation

It is the responsibility of all operators, as specified in the legislation, to be aware of Ministry requirements and to ensure compliance with all requirements prior to submitting a well licence application.

## Definitions

**Completion** of a well: is a set of one or more contact intervals that function together to produce or inject fluids.

**Capable of producing well:** is a well standing cased that has a licenced production or injection pool.

**Set-back distance:** is distance in metres between the proposed well completion and the surrounding existing or planned well completions.

## Calculating Set-back Distance

Determining the Lahee Classification is done by measuring the distance from the target pool of the well being licensed to that of any existing nearby wells producing or capable of producing within the same stratigraphic unit.

The distance is measured from any part of the completion or proposed completion of the well being licensed to the completion or potential completion of the nearest well within the same stratigraphic unit.

## Identifying Lahee Classification Based on Calculated Set-back Distance

The Lahee Classification categories are described below, and the accompanying table outlines the appropriate set-back distances for each category.

01. Development Well: Whether oil or gas, a development well is defined as per Table 1.
02. Development Service Well: This is any injection, disposal or observation well related to oil and gas development.
03. Outpost: An outpost well, whether oil or gas, is as defined per Table 1.
04. New Pool Wildcat: A new pool wildcat well, whether oil or gas, is as defined per Table 1.
05. New Field Wildcat: A new field wildcat well, whether oil or gas, is as defined per Table 1.
06. Deeper Pool Test: N/A

07. Other Wells: 'Other wells' are defined as any well drilled with the intent other than the production of oil or gas, or stimulation of hydrocarbons by injection or disposal. Wells under this category include:

- stratigraphic test wells
- potash wells
- potash water-disposal wells
- re-entry wells to repair (repair plug, abandonment, casing, etc.; no production expected)
- gas cavern or gas storage wells
- lease fuel wells

Table 1. Required set-back distances based on Lahee Classification category. (m - metres)

<b>Lahee Classification (Category Abbreviation)</b>	<b>Set-back Distance Oil Wells</b>	<b>Set-back Distance Gas Wells</b>
Development Well (DEW)	Within 804 m of a producing or capable of producing well	Within 1609 m of a producing or capable of producing well
Development Service Well (DSW)		
Outpost (OUT)	More than 804 m from nearest well, but not exceeding 2414 m from nearest producing or capable of producing well	More than 1609 m from nearest producing or capable of producing well, but not exceeding 4828 m
New Pool Wildcat (NPW)	More than 2414 m from nearest well, but not exceeding 9656 m from nearest producing or capable of producing well	More than 4828 m from nearest well, but not exceeding 16 093 m from the nearest producing or capable of producing well
New Field Wildcat (NFW)	More than 9656 m from nearest producing or capable of producing well	More than 16 093 m from nearest producing or capable of producing well
Deeper Pool Test (DPT)	N/A	N/A
Other Wells (OTH)		