

## Industry Tip

### Functionality to create Routine Commingling Applications

Date	Module/Application/Functionality	Notes
August 7, 2019	Functionality to create Routine Commingling – Oil/Gas Applications	6.01 Release

With the release of IRIS 6.01 on August 7, 2019, there will be a new functionality to assist in submitting commingling applications. This functionality includes making commingling applications go routine/non-routine.

Functionality to create Routine Commingling – Oil/Gas Applications

#### Commingling Application:

<u>Reservoir</u>
▪ Acid Gas Disposal
▪ Additional Wellbore
▪ Commingling - Oil/Gas
▪ Commingling - Disposal/Other
▪ Enhanced Oil Recovery
▪ Project Commencement
▪ Reclassification
▪ Recompletion
▪ Spacing Modification
▪ Waterflood
▪ Well Test

When applying to commingle production, there are now two application types to select from. One application type is “Commingling - Disposal/Other” which will have the same generic information as the current commingling application. The other application type is “Commingling – Oil/Gas” which will have the added functionality to make the application go routine based on disclosure questions and other criteria.

## “Commingling – Disposal/Other”

The screenshot displays the 'Create Application' interface within the 'Commingling Application' section of the Ministry of Energy and Resources IRIS. The page features a navigation menu with options like Tenure, Applications, Infrastructure, Reports, Security Reports, Support, and Quick Search. The main content area includes a sidebar with 'Application Details', 'Attachments', and 'Confirm Application' tabs. The 'Create Application' form contains an 'Industry Application Reference Number' field, a 'Description' dropdown menu, and an 'On Behalf of BA' field with a search button. A 'Next' button is located at the top right, and a 'Save As Draft' button is at the bottom right. A large 'TEST' watermark is overlaid on the page. The footer shows the version 'Build: 5.20.0.19153 Environment: TEST' and the copyright '©Saskatchewan Ministry of Energy and Resources'.

When selecting “Commingling – Disposal/Other” application type, the above screen is displayed. This is the same generic application submission screen that previously existed for commingling application submissions.

## “Commingling – Oil/Gas”

Commingling - Oil/Gas

### Well Information - New Commingling Oil/Gas Application

Next →

**Industry & Ministry Information**

Industry Application Reference Number  On Behalf of BA \*  [Search...](#)

Does this Well have previous Commingling approval for the subject pools? \*  Yes  No

**Commingling Authorizations**

Authorization # *
No Commingling Authorization Information Found

[Add a Commingling Authorization](#)  
NOTE: If this was approved pre-IRIS, ensure to include the Approval to Comingle production form in the "Commingling Application Package"

**Application**

Resubmission? \*  Denied Application #  [Search by Denied Submission...](#)

**Well Information**

Well Licence \*  [Search...](#)

[Validate](#) [Save As Draft](#) [Next →](#)

When selecting the “Commingling Oil/Gas” application type, the screen above will be displayed. New sections have been added to allow the applicant to submit additional information as part of the submission process.

\*- these fields are mandatory.

**Industry Application Reference Number:** Similar to the generic application, the applicant may choose to enter in a reference number.

**On Behalf of BA\*:** Enter in the five-digit Business Associate ID number. This field will show up only if you are applying on behalf of another company.

**Does this well have previous Commingling approval for the subject pools?\***: If the approval was received before the IRIS launch date of November 19, 2015, the “Approval to Comingle Production” form must be included in the “Commingling Application Package”. If the approval was received after this date, click “Add a Commingling Authorization” to enter the IRIS Ministry authorization number.

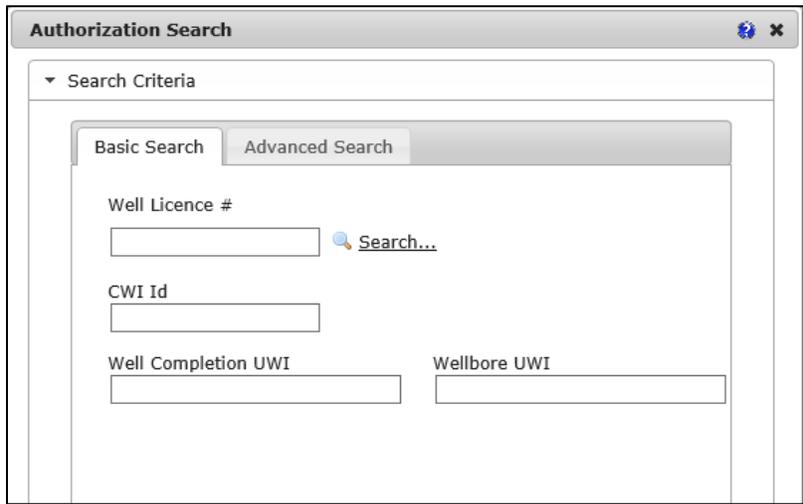
Does this Well have previous Commingling approval for the subject pools? \*  Yes  No

**Commingling Authorizations**

Authorization # *
1 <input type="text"/> <a href="#">Facility Licence...</a> <a href="#">Well Licence...</a> <a href="#">Other...</a> <a href="#">X</a>

[Add a Commingling Authorization](#)  
NOTE: If this was approved pre-IRIS, ensure to include the Approval to Comingle production form in the "Commingling Application Package"

The ability to search for the authorization number using the well licence is also available, in the case this number is not known.



The screenshot shows a web application window titled "Authorization Search". Inside the window, there is a "Search Criteria" section with a dropdown arrow. Below this, there are two tabs: "Basic Search" (which is selected) and "Advanced Search". Under the "Basic Search" tab, there are four input fields: "Well Licence #" with a "Search..." button to its right, "CWI Id", "Well Completion UWI", and "Wellbore UWI".

**Resubmission?\***: The applicant must declare whether or not this is a resubmission of a previously denied application. The original denied application number may be entered in the box next to the dropdown.

**Well Licence\***: Enter the six-digit well licence number. The system will auto-populate the respective surface location, CWI ID, Field Office and Well Trajectory fields for the well.

The ability to search for the well licence number is also available, in the case this number is not known.

## Wellbores Information:

Wellbores Information - Application # 115511

Wellbore

- SK.WI.101022704723W300 - 84044 - 8055 d
- SK.WI.101022704723W300 - 84044 - 1EG d
- SK.WI.102022704723W302 - 84044 - 1EG d

Wellbore CWI: SK01322818001	Wellbore CWI: SK01322818002
Measured Depth: 1507.00 mkb	Measured Depth: 1481.00 mkb
True Vertical Depth: 569.30 mkb	True Vertical Depth: 569.90 mkb
Land Location: 02-27-047-23W3	Land Location: 02-27-047-23W3
Reference Corner: South East	Reference Corner: South East
North: 711.1 m	North: 710.3 m
West: 712.6 m	West: 707.8 m

The wellbore(s) associated to the well will auto-populate on this screen. Check the box to select the wellbore(s) in which the comminglement will occur. The applicant may choose multiple wellbores to commingle, if necessary. As a wellbore is selected, its bottomhole information will auto-populate below.

**Note\*:** If any bottomhole information is missing from the wellbore in IRIS, the applicant will receive a validation error warning message and will not be able to proceed until this information is complete. Please contact the ER Service Desk to submit this information and have it updated in IRIS, in order to proceed with the application.

## Pools for Commingle Production:

Well Completion Information - Application # 130767

Well Completion

Well Completion Type: Oil Well

Does this oil well completion require an oil analysis as per the requirements in Section 8 of Directive PNG017: Measurement Requirements for Oil and Gas Operations?

Pool	Stratigraphic Unit	Definition	Allocation Factor
No Pool Information Found			

Commingled Pool:  Search...

Project:  Search... Unit:  Search...

Proposed Drainage Unit/Area

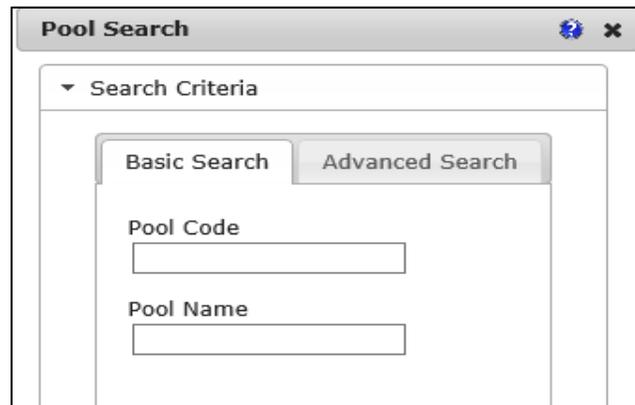
Enter the drainage unit of the commingled completion. If the pools to be commingled have different sized drainage units, the commingled completion will use the larger drainage unit.

Land Description	DLS Land Type	LSD Qualifier	Action
Add Land By: Legal Land Description			
Legal Land Description: E.g. 12-24-015-04W2			
Add	Add Many...		

**Well Completion Type\*:** Select either oil well or gas well, to indicate the well completion type. If an oil well completion type is selected, the question generated pertaining to oil analysis must be answered.

**Pool\*:** Enter in all pools to be commingled, using the respective pool code. Clicking “Add a Pool” will create a new row entry. A minimum of two pools are required to be entered for the purposes of commingling production. Once the pool code is entered, the system will auto-populate the respective stratigraphic unit and definition fields. To the right of the definition field, enter in the pool allocation factor, as a percentage. The sum of allocation factors for all pools to commingle must equal to 100%.

The ability to search for the pool code is also available, in the case the code is not known.



The image shows a software window titled "Pool Search". Inside the window, there is a section labeled "Search Criteria" with a downward-pointing arrow. Below this, there are two tabs: "Basic Search" and "Advanced Search". The "Basic Search" tab is currently selected and contains two text input fields. The first field is labeled "Pool Code" and the second is labeled "Pool Name".

**Commingled Pool\*:** Enter the pool code for the commingled pool, from which all subsequent production will be reporting from. More detailed information on determining this pool code will be available in a future guideline.

**Project/Unit:** If the well is part of a unit or project, the applicant may choose to enter this information below.

**Proposed Drainage Unit/Area\*:** Enter the drainage unit of the commingled completion. If the pools to be commingled have different sized drainage units, the commingled completion will use the larger drainage unit.

## Disclosure Questions (Oil):

Commingling - Oil/Gas

Previous Disclosure Questions - Application # 130767 Next

Disclosure Questions for Commingling Application

Does the well have any known wellbore or casing integrity issues?	C1	<input type="text"/>
Are any contact intervals being plugged, squeezed or abandoned?	C2	<input type="text"/>
Do any of the pools to be commingled fail to meet their respective drainage unit requirements, in terms of the number of wells permitted to produce in a drainage unit for each pool?	C3	<input type="text"/>
Is there diverse mineral interest (Lessor or Lessee) between any of the pools to be commingled from the well?	C4	<input type="text"/>
Will the proposed contact interval(s) in the pool(s) to be commingled make the well off-target?	C5	<input type="text" value="Yes"/>
Based on Yes to C5 please provide answer to: Is the off-target well encroaching on diversely held mineral interest?	C6	<input type="text" value="Yes"/>
Based on Yes to C6 please provide answer to: Does the well qualify for waiver of the off-target penalty?	C7	<input type="text"/>
Based on Yes to C5, please provide answer to: Are any of the proposed contact intervals less than 50m from the drainage unit?	C8	<input type="text"/>
Does the current producing pool(s) have less than 6 months of production?	C9	<input type="text"/>
Is the most recent six-month average daily oil production rate for the current producing pool(s) above 2m <sup>3</sup> per day?	C10	<input type="text"/>
Do any of the pools to be commingled exhibit significant underlying water identified through the well logs or production?	C11	<input type="text"/>
Is there an existing well, within 800m, injecting or capable of injecting into the same pools to be commingled?	C12	<input type="text"/>
Do any of the pools to be commingled contain an associated gas cap?	C13	<input type="text"/>

Previous Validate Delete Draft Save As Draft Next

Based on the well completion type selected in the previous section, a set of disclosure questions will be populated. The above disclosure questions are populated based on the selection of an “oil well” completion type. Answering yes to C5 or C6 populates new questions as shown above.

## Disclosure Questions (Gas):

Commingling - Oil/Gas

Previous Disclosure Questions - Application # 130767 Next

Disclosure Questions for Commingling Application

Does the well have any known wellbore or casing integrity issues?	C1	<input type="text"/>
Are any contact intervals being plugged, squeezed or abandoned?	C2	<input type="text"/>
Do any of the pools to be commingled fail to meet their respective drainage unit requirements, in terms of the number of wells permitted to produce in a drainage unit for each pool?	C3	<input type="text"/>
Is there diverse mineral interest (Lessor or Lessee) between any of the pools to be commingled from the well?	C4	<input type="text"/>
Will the proposed contact interval(s) in the pool(s) to be commingled make the well off-target?	C5	<input type="text" value="Yes"/>
Based on Yes to C5 please provide answer to: Is the off-target well encroaching on diversely held mineral interest?	C6	<input type="text" value="Yes"/>
Based on Yes to C6 please provide answer to: Does the well qualify for waiver of the off-target penalty?	C7	<input type="text"/>
Based on Yes to C5, please provide answer to: Are any of the proposed contact intervals less than 50m from the drainage unit?	C8	<input type="text"/>
Does the current producing pool(s) have less than 6 months of production?	C9	<input type="text"/>
Do any of the pools to be commingled exhibit significant underlying water identified through the well logs or production?	C11	<input type="text"/>
Is there an existing well, within 800m, injecting or capable of injecting into the same pools to be commingled?	C12	<input type="text"/>
Are any of the the proposed pools to be commingled shallower than the top of the Milk River formation?	C14	<input type="text" value="Yes"/>
Based on Yes to C14 please provide answer to: Are these pools intended to be fracture stimulated?	C15	<input type="text"/>
Is the most recent six-month average daily gas production rate for the current producing pool(s) above 10 e <sup>3</sup> m <sup>3</sup> per day?	C16	<input type="text"/>

Previous Validate Delete Draft Save As Draft Next

The above disclosure questions are populated based on an “gas well” completion type selected. Answering yes to C5, C6 or C14 populates new questions as shown above.

## Application Attachments:

Commingle - Oil/Gas

Well Information

Wellbores Information

Pools for Commingle Production

Disclosure Questions

Application Attachments

Contact Information

Review and Submit

Attachments - Application # 130767

Attachments

- The following documents are required
  - Commingle Package
  - Reclassification/Recompletion Package
- You may attach one or more of the following documents
  - Additional Supporting Document

File *	Document Type *	Is Confidential	Comments	Date *
1 test.docx	Additional Supporting Document			2019-07-26 08:25:04

Add Attachment

Validate Delete Draft Save As Draft Next

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Based on how the disclosure questions were answered, the system will generate a list of required documents to be submitted. More detailed information on attachment requirements will be available in a future guideline.

## Contact Information:

Commingle - Oil/Gas

Well Information

Wellbores Information

Pools for Commingle Production

Disclosure Questions

Application Attachments

Contact Information

Review and Submit

Commingle Production Contact Information - Application # 130767

Contact Information \*

Contact Name *	Job Title	Business Phone *	Email Address *
1			

Add a Contact

Validate Delete Draft Save As Draft Next

Enter the contact information in this section. This information may be used to direct any questions regarding the application, to the appropriate person(s). At least one contact is required.

## Review and Submit:

An overview of the submission information can be viewed from this screen. The applicant must ensure all information has been filled out accurately and to the best of their knowledge. Once the information has been verified, click the "submit" button to complete the submission process. At any time before submission, the application may be saved as a draft. The information filled out will be saved in draft form so that it can be submitted at a later time, or deleted if the applicant chooses to do so.

## Questions?

If you have any questions or concerns, contact ER Service desk at 1-855-219-9373 or

[ER.Servicedesk@gov.sk.ca](mailto:ER.Servicedesk@gov.sk.ca)