

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:

Reservoir

- 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 'Ministry of Energy and Resources Integrated Resource Information System'. The page features a top navigation bar with links for Tenure, Applications, Infrastructure, Reports, Security Reports, Support, and Quick Search. A sidebar on the left contains tabs for Application Details, Attachments, and Confirm Application. The main content area is titled 'Create Application' and includes a 'Next' button. The form contains the following fields:

- Industry Application Reference Number (text input)
- Description (text input with a red asterisk indicating a required field)
- On Behalf of BA (text input with a red asterisk indicating a required field)
- A 'Search' button next to the 'On Behalf of BA' field.

At the bottom right of the form, there are 'Save As Draft' and 'Next' buttons. A large, light gray 'TEST' watermark is overlaid diagonally across the center of the page. The footer includes the text 'Build: 3.20.0.19153 Environment: TEST' on the left and '©Saskatchewan Ministry of Energy and Resources' on the right.

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”

Well Information - New Commingling Oil/Gas Application

Industry & Ministry Information

Industry Application Reference Number

On Behalf of BA *

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 Commingle production form in the "Commingling Application Package"

Application

Resubmission? * Denied Application #

Yes 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 Commingle 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

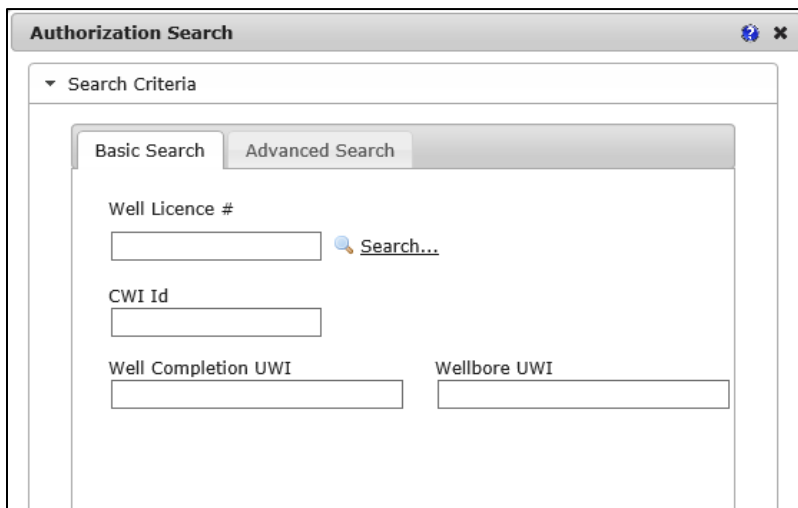
Commingling Authorizations

Authorization # *
1

Add a Commingling Authorization

NOTE: If this was approved pre-IRIS, ensure to include the Approval to Commingle 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 section labeled "Search Criteria" with a dropdown arrow. Below this, there are two tabs: "Basic Search" (which is active) and "Advanced Search". Under the "Basic Search" tab, there are four input fields: "Well Licence #" with a text input box and a "Search..." button with a magnifying glass icon; "CWI Id" with a text input box; "Well Completion UWI" with a text input box; and "Wellbore UWI" with a text input box.

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:

Commingling - Oil/Gas

Well Information

Wellbores Information

Wellbores

- ☒ SK WI 101022704723W300 - 84044 - R055 d
- ☐ SK WI 101022704723W303 - 84044 - L45 d
- ☒ SK WI 101022704723W302 - 84044 - L45 d

Wellbore CWI: SK0132281B001

Measured Depth: 1507.00 mkb

True Vertical Depth: 569.30 mkb

Land Location: 02-27-047-23W3

Reference Corner: South East

North: 211.1 m

West: 712.6 m

Wellbore CWI: SK0132281B002

Measured Depth: 1481.00 mkb

True Vertical Depth: 569.90 mkb

Land Location: 02-27-047-23W3

Reference Corner: South East

North: 210.3 m

West: 707.8 m

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Validate Delete Draft Save As Draft Next

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:

Commingling - Oil/Gas

Well Information

Wellbores Information

Pools for Commingle Production

Disclosure Questions

Application Attachments

Contact Information

Review and Submit

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

Pool	Stratigraphic Unit	Definition	Allocation Factor
No Pool Information Found			

Add a Pool

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...		

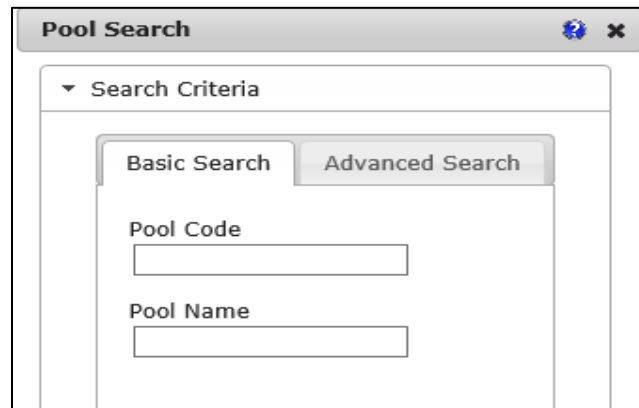
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Well Completion Type*: Select either oil well or gas well, to indicate the well completion type. If an oil well completion type is selected, the question generated pertaining to oil analysis must be answered.

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 arrow. Below this, there are two tabs: "Basic Search" and "Advanced Search". The "Basic Search" tab is currently selected. Under the "Basic Search" tab, there are two input fields: "Pool Code" and "Pool Name". Both fields are empty and have a standard rectangular border.

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

Well Information

Wellbores Information

Pools for Commingle Production

Disclosure Questions

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Review and Submit

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Disclosure Questions - Application # 130767

Next

Disclosure Questions for Commingling Application

Does the well have any known wellbore or casing integrity issues? C1

Are any contact intervals being plugged, squeezed or abandoned? C2

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

Is there diverse mineral interest (Lessor or Lessee) between any of the pools to be commingled from the well? C4

Will the proposed contact interval(s) in the pool(s) to be commingled make the well off-target? C5 Yes

Based on Yes to C5 please provide answer to: Is the off-target well encroaching on diversely held mineral interest? C6 Yes

Based on Yes to C6 please provide answer to: Does the well qualify for waiver of the off-target penalty? C7

Based on Yes to C5, please provide answer to: Are any of the proposed contact intervals less than 50m from the drainage unit? C8

Does the current producing pool(s) have less than 6 months of production? C9

Is the most recent six-month average daily oil production rate for the current producing pool(s) above 3m³ per day? C10

Do any of the pools to be commingled exhibit significant underlying water identified through the well logs or production? C11

Is there an existing well, within 800m, injecting or capable of injecting into the same pools to be commingled? C12

Do any of the pools to be commingled contain an associated gas cap? C13

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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

Well Information

Wellbores Information

Pools for Commingle Production

Disclosure Questions

Application Attachments

Contact Information

Review and Submit

Previous

Disclosure Questions - Application # 130767

Next

Disclosure Questions for Commingling Application

Does the well have any known wellbore or casing integrity issues? C1

Are any contact intervals being plugged, squeezed or abandoned? C2

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

Is there diverse mineral interest (Lessor or Lessee) between any of the pools to be commingled from the well? C4

Will the proposed contact interval(s) in the pool(s) to be commingled make the well off-target? C5 Yes

Based on Yes to C5 please provide answer to: Is the off-target well encroaching on diversely held mineral interest? C6 Yes

Based on Yes to C6 please provide answer to: Does the well qualify for waiver of the off-target penalty? C7

Based on Yes to C5, please provide answer to: Are any of the proposed contact intervals less than 50m from the drainage unit? C8

Does the current producing pool(s) have less than 6 months of production? C9

Do any of the pools to be commingled exhibit significant underlying water identified through the well logs or production? C11

Is there an existing well, within 800m, injecting or capable of injecting into the same pools to be commingled? C12

Are any of the the proposed pools to be commingled shallower than the top of the Milk River formation? C14 Yes

Based on Yes to C14 please provide answer to: Are these pools intended to be fracture stimulated? C15

Is the most recent six-month average daily gas production rate for the current producing pool(s) above 10 e³ m³ per day? C16

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

Previous Attachments - Application # 130767 Next

Attachments

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

Confidential help

File *	Document Type *	Is Confidential	Comments	Date *
1 test.docx	Additional Supporting Document	<input checked="" type="checkbox"/>		2019-07-26 08:25:04

Add Attachment

Additional Supporting Document

Commingle Package

Consent to Complete the Proposed Off Target Well

Public Notification Waiver of Off-Target Penalty

Reclassification/Recompletion Package

Written Consent Waiver of Off-Target Penalty

Previous 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

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Review and Submit

Previous Commingle Production Contact Information - Application # 130767 Next

Contact Information *

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

Add a Contact

Previous 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