

Industry Tip

Hydraulic Fracturing Reporting Updates

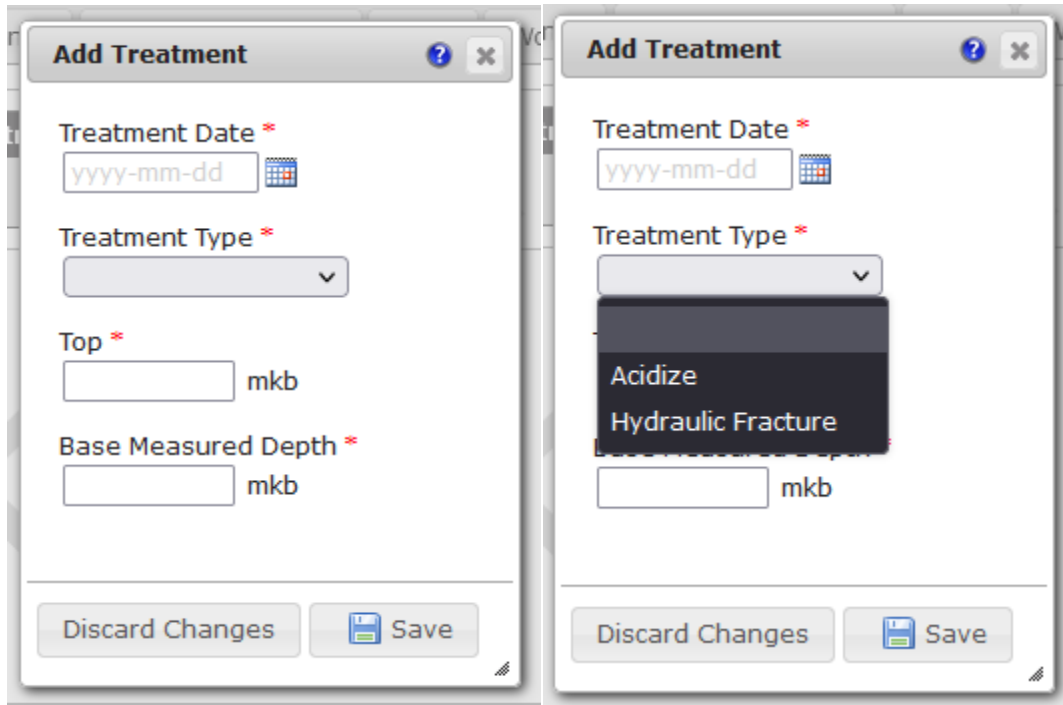
Date	Module/Application/Functionality	Notes
December 7, 2022	Infrastructure/Well/Treatments	Initial Release

Background

In support of the updated requirements coming in *Directive PNG048: Hydraulic Fracturing Requirements*, which is scheduled to go into effect on December 9, 2022, new fields have been added and existing fields updated to reflect the new requirements. This enhancement allows users to report required information directly into IRIS as structured data when reporting a hydraulic fracture. The identified detailed structured data will be required to be entered as of December 7, 2022 for hydraulic fracture reporting.

Process

When reporting hydraulic fracture operations in IRIS, users will still navigate to the *Treatments* tab under *Wellbores*. The option to add treatments will display, and when selected, users will be prompted with the “*Add Treatment*” window. The *Treatment Types* have been updated and now only display *Acidize* and *Hydraulic Fracture* as options.



Hydraulic fractures will now require additional information be entered to satisfy the data entry requirements. All fields within this this window are required to save the treatment.

Component Type	Trade Name	Supplier	Purpose	Ingredient	Chemical Abstract Service Number	Component Concentration	Concentration in Fracture Fluid
No Fracture Fluid Reporting data found							
Add Row							

The *Fracture Stages*, *Top/Base Measured Depth*, *Fracture Half Length* and all *Water Volume Used* fields must have a number added to the field to be valid.

Add Treatment

Treatment Date *

Fracture Stages *

Recycled Water Volume Used * m³ ▲ Recycled Water Volume Used must be of a number with at most 5 digits before the decimal place and at most 1 decimal digits after the decimal place. Negative sign is not allowed.

Treatment Type *

Carrier Fluid *

Other Water Volume Used * m³

Top * mkb

Fresh Water Volume Used * m³

Total Fluid Volume Used * m³

Base Measured Depth * mkb

Fracture Half Length * m

Stratigraphic Unit *

Previously, different hydraulic fractures were identified by the *Treatment Type* being submitted. With those additional types being removed, the fracture type is now identified by the *Carrier Fluid* field. This field allows the user to identify if the carrier fluid was *Water*, *CO2*, *Chemical*, *Acid* or *Other*. If *Other* fluid is selected an additional field appears that requires the user to submit the type of fluid used.

Carrier Fluid *

- Water
- Co2
- Chemical
- Acid
- Other

Carrier Fluid *

Fluid Used *

While hydraulic fracturing operations are ongoing, if any communication events are observed that meet the threshold set in *Directive PNG048*, users must disclose this when submitting their fracture details. All Hydraulic Fracture treatments must answer the disclosure question: “*During the Hydraulic Fracturing operation was there any communication with an offset well above 500kPA or 25% of the adjusted maximum pressure of the well?*” by either selecting *Yes* or *No*. Selecting *Yes* will require the user to submit details on the well that observed the communication event. Any communication event discovered after the fracture information has been entered will be able to be added to the list of communication event records.

During the Hydraulic Fracturing operation was there any communication with an offset well above 500kPA or 25% of the adjusted maximum pressure of the well? *
 Yes No

Communication Events

Well Licence	Well Surface Location	Distance from Fractured Wellbore	Observed Pressure if Monitored	Adjusted Maximum Pressure Of Well
No communication event data found				
<input type="button" value="Add Communication Event"/>				

Communication Events					
Well Licence	Well Surface Location	Distance from Fractured Wellbore	Observed Pressure if Monitored	Adjusted Maximum Pressure Of Well	
1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Add Communication Event

The Fracture Fluid reporting is required for all hydraulic fracture operations and can be entered by selecting the "Add Row" to add as many rows as the user requires to complete the fluid report. All fields are mandatory; for any field that does not have a value (for example *Supplier* or *Purpose*) NA can be entered by the user.

Fracture Fluid Reporting							
Component Type	Trade Name	Supplier	Purpose	Ingredient	Chemical Abstract Service Number	Component Concentration	Concentration in Fracture Fluid
1	Carrier Fluid	Water	NA	Water	1234-56-78	100	85
2	Proppant	100 Mesh	ABC Company	NA	Quartz Crystalline Silica	9876-54-32	14

Add Row

Add Treatment

Add Communication Event

At least one record must be entered to Fracture Fluid Reporting table

Component Type	Trade Name	Supplier	Purpose	Ingredient	Chemical Abstract Service Number	Component Concentration	Concentration in Fracture Fluid
No Fracture Fluid Reporting data found							

Add Row

Discard Changes

Related Info
Licence

Once the hydraulic fracture is submitted, an obligation will automatically trigger to submit the fracture report in IRIS within 30 days.

Status of Obligation 664349 (Submit Fracture Report) changed from Proposed to Unfulfilled.

Unfulfilled Obligation # 664349 **Notes (0)**

Obligation was submitted for Well	<input type="text"/>	BA	<input type="text"/>
Licence	<input type="text"/>	Well CWI	<input type="text"/>
Identified for Billing Run	<input type="text" value="No"/>	Derived	<input type="text" value="Yes"/>

Obligation	Attachments	Notifications	Fulfillment
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Obligation Type

Obligation Type
If the completion has been fractured a frac report must be submitted.

Description

Due Date Type Obligation Fulfillment Type

Obligation Dates

Start Date
Due Date
Status

Build: 9.5.0.22320 Environment: TEST

The user will fulfill this obligation the same as is currently done for fracture report obligations, with the additional documents included within the fracture report as required by *Directive PNG048* and *Directive PNG013*.

Questions ? ER Service Desk Phone: 1-855-219-9373 Email: ER.ServiceDesk@gov.sk.ca