



Fracture Fluid Report Upload Manual

Version 1.1
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www.bcogc.ca

WELCOME

Welcome to the Hydraulic Fracturing and Fracture Fluid Information Site. This website is a project of the BC Oil & Gas Commission and is intended to provide objective information on Hydraulic Fracturing, Fracturing Fluids, Groundwater and Surface water protection and related oil and gas activities in Canada.

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[Welcome](#)

[Hydraulic Fracturing](#)

[Casing & Cement](#)

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FAQs

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Q. What is Hydraulic Fracturing?

A.

Hydraulic fracturing, commonly referred to as "fracing", is the process of creating small cracks, or fractures, in deeply buried geological formations to allow natural gas to flow into the wellbore. The natural gas can then flow to the surface under controlled conditions through the wellhead and be collected for processing and distribution.

During the hydraulic fracturing process, a mixture of water, sand and other chemical additives designed to protect the integrity of the wellbore and enhance production is pumped under high pressure into the formation to create fractures. The fractures are kept open by sand or "proppant", which provides pathways to allow the natural gas to flow into the wellbore.

[All FAQs >](#)

The Province of British Columbia has committed to the disclosure of hydraulic fracture fluid ingredients and this intuitive manual will take you through the step-by-step process to successfully upload your data.

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1 Introduction

1.1 Roles required

Each company must designate one or more individuals as company administrators within the KERMIT application. The company administrator is required to assign the “Frac Fluid Reporting” role to all staff responsible for entering the disclosure information on their company’s behalf. For instructions on how to assign roles within the KERMIT application, please refer to the following document: <http://bcogc.ca/documents/guidelines/Company%20Admin.pdf>.

2 Submitting a Report

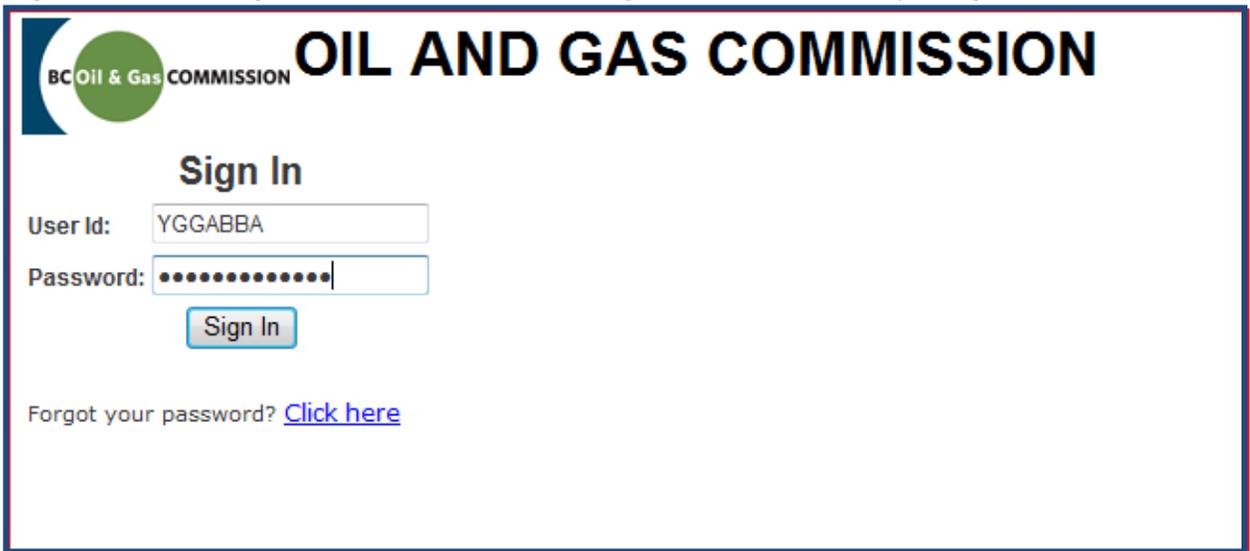
Frac fluid reports can be submitted in two ways:

- Bulk uploads of records using the “Upload CSV” option.
- Entry of individual records via the “New Frac Fluid Report” option.

2.1 Uploading a Frac Fluid Report using “Upload CSV”

In order to bulk load multiple frac fluid records using the “Upload CSV” link, please follow the steps listed below:

- a) Log into KERMIT using an account that has been assigned the “Frac Fluid Reporting” role.



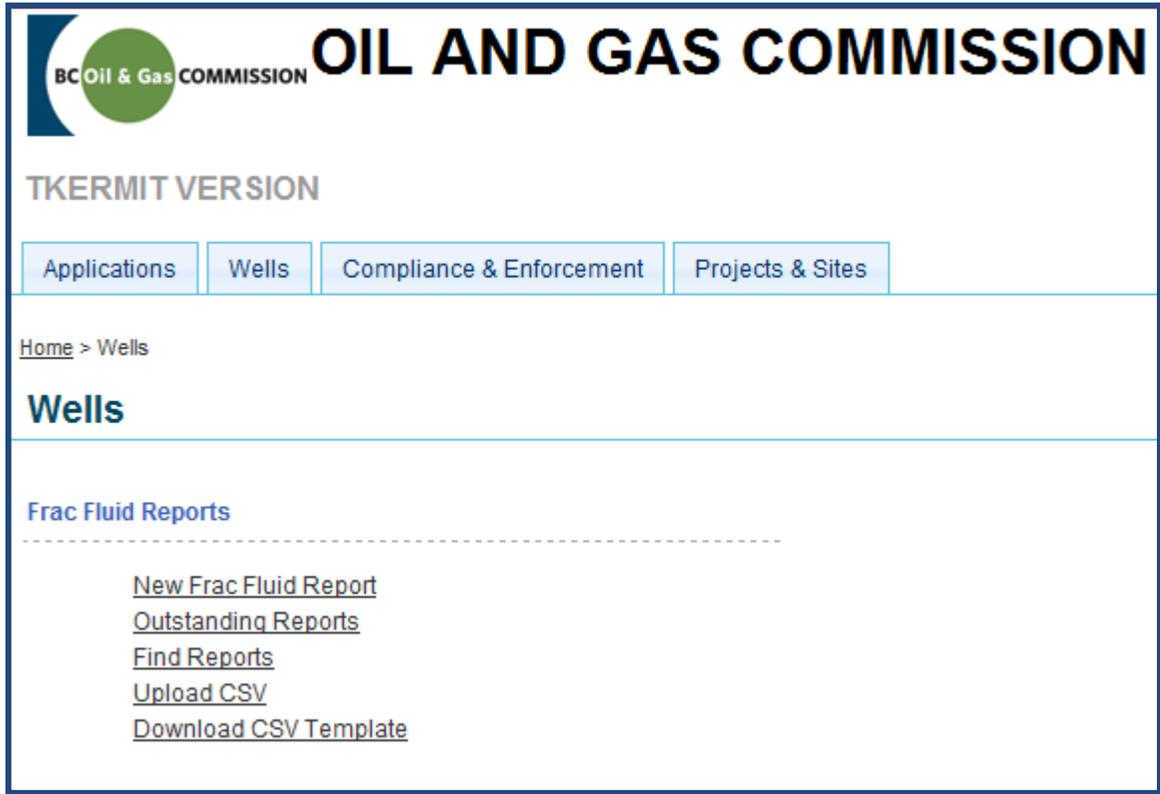
The screenshot shows the login interface for the BC Oil & Gas Commission. At the top left is the logo with the text "BC Oil & Gas COMMISSION". To the right, the text "OIL AND GAS COMMISSION" is displayed in large, bold, black letters. Below the logo, the heading "Sign In" is centered. There are two input fields: "User Id:" containing the text "YGGABBA" and "Password:" containing a series of dots. A "Sign In" button is positioned below the password field. At the bottom left, there is a link that says "Forgot your password? [Click here](#)".

- b) Select the “Wells” tab.



The screenshot shows the dashboard for the "TKERMIT VERSION" of the BC Oil & Gas Commission system. At the top left is the logo with the text "BC Oil & Gas COMMISSION". To the right, the text "OIL AND GAS COMMISSION" is displayed in large, bold, black letters. Below the logo, the text "TKERMIT VERSION" is displayed. There is a horizontal menu with four tabs: "Applications", "Wells", "Compliance & Enforcement", and "Projects & Sites". The "Wells" tab is currently selected. Below the menu, the text "Welcome Stuart Venables." is displayed, followed by the instruction "Please select an option from the menu above."

c) Download the .CSV template file via the “Download CSV Template” link.



d) Complete the template with the required information and save the file.

WA #, Fracture Date and Total Water: This value should remain constant for all rows that contain data per WA.

Trade Name: Trade Name is entered for each ingredient related to the additive/ingredient.

Supplier: Supplier is added in each row related to the additive/ingredient.

Purpose: Purpose is added in each row related to the additive/ingredient.

CAS #: The Chemical Abstract Service Number (CAS #) is entered in this column. There should be a CAS # for each entry (where possible). In circumstances where there is no CAS # or it is 'Undisclosed', please leave the field blank. A CAS # is a three-part number that follows the format below:

- Part 1 – contains anywhere from 2-7 digits
- Part 2 – contains 2 digits
- Part 3 – contains 1 digit

For example, the CAS # 1234-56-7 can be entered in the cell as 1234-56-7 or 1234567; in order to prevent Excel from converting the value into a date, enclose the number in quotation marks (e.g. “1234-56-7” or “1234567”).

Ingredient Name: Name of each ingredient. May be 'Undisclosed' in certain circumstances.

Max Additive Concentration(%): The maximum concentration for each ingredient within the additive (or trade name chemical compound).

Max Fluid Concentration(%): The maximum concentration of each ingredient within the fracture fluid.

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	WA #	Fracture D	Total Wat	Trade Nan	Supplier	Purpose	Fluid Com	CAS Num	Ingredi	Max Addit	Max Fluid	Ingredient	Comment
2	25773	11/12/201	10000	Fresh Wat	Mother N	Base/Carrier Fluid	-	-	Fresh Wat	100	87.859		
3	25773	11/12/201	10000	Sand (Pro	-	Proppant	-	-	Sand	100	11.10203		
4	25773	11/12/201	10000	Muno	YGG Indus	Iron Control Agent		7732185	Water	60	0.00158		
5	25773	11/12/201	10000	Muno	YGG Indus	Iron Control Agent		18662-53-	Trisodium	40	0.00105		
6	25773	11/12/201	10000	Muno	YGG Indus	Iron Control Agent		"7757826"	Sodium Su	2	0.00005		
7	25773	11/12/201	10000	Muno	YGG Indus	Iron Control Agent		"1310-73-	Sodium H	1	0.00003		
8	25773	11/12/201	10000	Brobee	YGG Indus	Corrosion Inhibitor		7757826	Methanol	60	0.00044		
9	25773	11/12/201	10000	Brobee	YGG Indus	Corrosion Inhibitor		68951677	Ethoxylate	30	0.00022		
10	25773	11/12/201	10000	Brobee	YGG Indus	Corrosion Inhibitor		68527491	Modified	30	0.00022		
11	25773	11/12/201	10000	Brobee	YGG Indus	Corrosion Inhibitor		107197	Propargyl	10	0.00007		
12	25773	11/12/201	10000	Brobee	YGG Indus	Corrosion Inhibitor		6474328	Alkenes^	5	0.00004		
13	25773	11/12/201	10000	Foofa	YGG Indus	Friction Reducer		7732185	Water	40	0.05438		
14	25773	11/12/201	10000	Foofa	YGG Indus	Friction Reducer		64742478	Petroleum	35	0.04758		
15	25773	11/12/201	10000	Foofa	YGG Indus	Friction Reducer		900369	Poly(Acryl	28	0.03807		
16	25773	11/12/201	10000	Foofa	YGG Indus	Friction Reducer		-	Undisclos	7	0.00952		
17	25773	11/12/201	10000	Toodee	YGG Indus	Anti-Bacterial		111308	Glutaralde	27	0.01084		
18	25773	11/12/201	10000	Toodee	YGG Indus	Anti-Bacterial		7173515	Didecyl Di	8	0.00321		
19	25773	11/12/201	10000	Toodee	YGG Indus	Anti-Bacterial		68424851	Quaternar	5.5	0.00221		
20	25773	11/12/201	10000	Toodee	YGG Indus	Anti-Bacterial		64175	Ethanol	4	0.00161		
21	25773	11/12/201	10000	Plex	YGG Indus	Scale Inhibitor		67561	Methanol	30	0.00352		
22	25773	11/12/201	10000	Plex	YGG Indus	Scale Inhibitor		-	Sodium po	30	0.00352		
23													

e) Select "Upload CSV" link.

The screenshot shows the BC Oil & Gas Commission website. At the top left is the logo with the text "BC Oil & Gas COMMISSION". To the right is the main header "OIL AND GAS COMMISSION". Below the header is the text "TKERMIT VERSION". A navigation bar contains four buttons: "Applications", "Wells", "Compliance & Enforcement", and "Projects & Sites". Below the navigation bar is the breadcrumb "Home > Wells" and the section title "Wells". Underneath is a sub-section "Frac Fluid Reports" with a dashed line separator. Below the separator are five links: "New Frac Fluid Report", "Outstanding Reports", "Find Reports", "Upload CSV", and "Download CSV Template".

f) Select "Load CSV Report..." and browse to location the CSV file was saved.

The screenshot shows the BC Oil & Gas Commission website. At the top left is the logo with the text "BC Oil & Gas COMMISSION". To the right is the main header "OIL AND GAS COMMISSION". In the top right corner, there is a user profile for "Stuart Venables" with the text "Oil and Gas Commission" and a "Sign Out" link. Below the header is the text "TKERMIT VERSION". A navigation bar contains four buttons: "Applications", "Wells", "Compliance & Enforcement", and "Projects & Sites". Below the navigation bar is the section title "Upload Frac Fluid Reports Using CSV File". Underneath is a button "Load CSV Report...". Below that is a table with the following columns: "Sort Order", "WA #", "Fracture Date", "Total Water Volume (m3)", "Trade Name", "Supplier", "Purpose", "Additive Comment", "CAS #", "Ingredient Name", "Maximum Additive Concentration (%)", "Maximum Fluid Concentration (%)", and "Ingredient Comment". Below the table is a section "Submit/Save/Cancel" with three buttons: "Submit Frac Fluids Reports", "Save Frac Fluid Reports", and "Cancel Frac Fluid Reports". Below the buttons is a checkbox with the text "I consent to the release of information in this form by the Commission to the public whether or not the well is subject to confidential status." In the bottom right corner, there is a small text "Screen ID: 1046723".

CSV Upload

Fill in filename (including path), then click Upload.

Uploads are only accepted for files with extensions of .csv

* File Name:

g) Once the CSV is loaded, the system will display the information it has loaded from the CSV. This will provide an opportunity to verify that the information being submitted is correct.

OIL AND GAS COMMISSION

TKERMIT VERSION

Applications | Wells | Compliance & Enforcement | Projects & Sites

Upload Frac Fluid Reports Using CSV File

Frac Fluid Report Information												
Sort Order	WA #	Fracture Date	Total Water Volume (m3)	Trade Name	Supplier	Purpose	Additive Comment	CAS #	Ingredient Name	Maximum Additive Concentration (%)	Maximum Fluid Concentration (%)	Ingredient Comment
1	25773	11/01/2011	10000	Fresh Water	Mother Nature	Base/Carnier Fluid		--0--	Fresh Water	100	87.859	
2	25773	11/01/2011	10000	Sand (Proppant)		Proppant		--0--	Sand	100	11.10203	
3	25773	11/01/2011	10000		Muno	YGG Industries	Iron Control Agent	7732-18-5	Water	60	0.00158	
4	25773	11/01/2011	10000		Muno	YGG Industries	Iron Control Agent	18662-53-0	Trisodium NTA	40	0.00105	
5	25773	11/01/2011	10000		Muno	YGG Industries	Iron Control Agent	7757-82-6	Sodium Sulfate	2	0.00005	
6	25773	11/01/2011	10000		Muno	YGG Industries	Iron Control Agent	1310-73-2	Sodium Hydroxide	1	0.00003	
7	25773	11/01/2011	10000		Brobee	YGG Industries	Corrosion Inhibitor	67-56-1	Methanol	60	0.00044	
8	25773	11/01/2011	10000		Brobee	YGG Industries	Corrosion Inhibitor	68951-67-7	Ethoxylated Alcohols™ C14-15	30	0.00022	
9	25773	11/01/2011	10000		Brobee	YGG Industries	Corrosion Inhibitor	68327-49-1	Modified Thiourea Polymer	30	0.00022	
10	25773	11/01/2011	10000		Brobee	YGG Industries	Corrosion Inhibitor	107-19-7	Propargyl Alcohol	10	0.00007	
11	25773	11/01/2011	10000		Brobee	YGG Industries	Corrosion Inhibitor	64743-02-8	Alkenes™ C8>10 alpha-	5	0.00004	
12	25773	11/01/2011	10000		Foofa	YGG Industries	Friction Reducer	7732-18-5	Water	40	0.05438	
13	25773	11/01/2011	10000		Foofa	YGG Industries	Friction Reducer	64742-47-8	Petroleum Oxidizate Hydrotreated Light	35	0.04758	
14	25773	11/01/2011	10000		Foofa	YGG Industries	Friction Reducer	9003-06-9	Poly(Acrylamide-co-Acrylic Acid)	28	0.03807	
15	25773	11/01/2011	10000		Foofa	YGG Industries	Friction Reducer	--0--	Undisclosed	7	0.00952	
16	25773	11/01/2011	10000		Toodee	YGG Industries	Anti-Bacterial	111-20-8	Glutaraldehyde	27	0.01084	
17	25773	11/01/2011	10000		Toodee	YGG Industries	Anti-Bacterial	7173-51-5	Diocetyl Dimethyl Ammonium Chloride	8	0.00321	
18	25773	11/01/2011	10000		Toodee	YGG Industries	Anti-Bacterial	68424-85-1	Quaternary Ammonium Compound	5.5	0.00221	
19	25773	11/01/2011	10000		Toodee	YGG Industries	Anti-Bacterial	64-17-5	Ethanol	4	0.00161	
20	25773	11/01/2011	10000		Plex	YGG Industries	Scale Inhibitor	67-56-1	Methanol	30	0.00352	
21	25773	11/01/2011	10000		Plex	YGG Industries	Scale Inhibitor	--0--	Sodium polyacrylate	30	0.00352	

Submit/Save/Cancel

Use the following buttons to submit, save or cancel your Frac Fluid Reports. Submitted reports will be available for the public to view. Saved reports can be submitted later through the Outstanding Reports menu option and will not be viewable by the public. Cancelled reports will be discarded, and will not be viewable by the public.

I consent to the release of information in this form by the Commission to the public whether or not the information is confidential or otherwise.

- h) Once the information has been verified it can be either submitted, saved or cancelled using the appropriate button.

The screenshot shows the BC Oil & Gas Commission KERMITS interface. At the top left is the logo with the text "BC Oil & Gas COMMISSION". To the right of the logo is the heading "OIL AND GAS COMMISSION". Below the logo is the text "TKERMIT VERSION". A navigation bar contains four buttons: "Applications", "Wells", "Compliance & Enforcement", and "Projects & Sites". The main content area is titled "Frac Fluid CSV Upload Information" and contains the following text: "The Frac Fluid CSV Upload has been successfully processed and the Frac Fluid Reports have been submitted. The Fluid Reports menu can be used to view these reports." Below this text is a blue hyperlink labeled "Return To Wells Menu".

2.2 Filling out a Frac Fluid report via “New Frac Fluid Report”

The “New Frac Fluid Report” link can be used to enter records individually directly into KERMITS using the following steps.

- a) Log into KERMITS using an account that has been assigned the “Frac Fluid Reporting” role.

The screenshot shows the BC Oil & Gas Commission KERMITS sign-in page. At the top left is the logo with the text "BC Oil & Gas COMMISSION". To the right of the logo is the heading "OIL AND GAS COMMISSION". Below the logo is the heading "Sign In". There are two input fields: "User Id:" with the value "YGGABBA" and "Password:" with a masked password represented by dots. Below the password field is a "Sign In" button. At the bottom of the form is the text "Forgot your password? [Click here](#)".

- b) Navigate to the “Wells” tab and select the “New Frac Fluid report” link.

The screenshot shows the BC Oil & Gas Commission website. At the top left is the logo with the text "BC Oil & Gas COMMISSION". To the right of the logo is the main header "OIL AND GAS COMMISSION". Below the header is the text "TKERMIT VERSION". A navigation bar contains four tabs: "Applications", "Wells", "Compliance & Enforcement", and "Projects & Sites". Below the navigation bar is a breadcrumb trail "Home > Wells". The main heading is "Wells". Underneath, there is a section titled "Frac Fluid Reports" with a dashed line separator. Below the separator are five links: "New Frac Fluid Report", "Outstanding Reports", "Find Reports", "Upload CSV", and "Download CSV Template".

- c) A “Search” screen has been provided – the applicable WA# should be entered in the field and brought into context via the “Find...” button.

The screenshot shows the BC Oil & Gas Commission website. At the top left is the logo with the text "BC Oil & Gas COMMISSION". To the right of the logo is the main header "OIL AND GAS COMMISSION". Below the header is the text "TKERMIT VERSION". A navigation bar contains four tabs: "Applications", "Wells", "Compliance & Enforcement", and "Projects & Sites". Below the navigation bar is a heading ">> Frac Fluid Report". Underneath, there is a section titled "Details". Below "Details" are two input fields: "WA #: [input field]" and "Operator: [input field]". To the right of the "WA #" field is a "Find..." button. Below the "Operator:" field is a "Create New Frac Fluid Report" button.

d) Once the Well has been brought into context, select the “Create New Frac Fluid Report” button.

BC Oil & Gas COMMISSION OIL AND GAS COMMISSION

TKERMIT VERSION

Applications Wells Compliance & Enforcement Projects & Sites

>> Frac Fluid Report

Details

WA #:

Operator:

e) A data entry screen will be displayed where the following information must be entered:

- Fracture Date
- Total Water Volume
- Additive information



OIL AND GAS COMMISSION

TKERMIT VERSION

Applications Wells Compliance & Enforcement Projects & Sites

>> Frac Fluid Report

Job #: 008671687-001 Status: New
WA #: 25773 Created Date: Nov 18, 2011
Operator: [REDACTED] Fracture Date: mmm dd, yyyy
Total Water Volume: m³

Save

Overview Finalize

Frac Fluid Report Information

Created Date: Nov 18, 2011
Fracture Date: Jan 1, 2012
Total Water Volume: 10000 m³

Additive

Sort Order	Trade Name	Supplier	Purpose	Comment	Fluid Ingredients
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Add Additive

Save

f) To add an additive, select the “Add Additive” button. A screen will appear where the following information should be specified:

- Trade Name
- Supplier
- Purpose
- Comments
- Ingredients

Additive

Details

Additive

Trade Name:

Supplier:

Purpose:

Comment:

Ingredients

Please use <http://ccinfoweb.ccohs.ca/chempendium/search.html> to find the correct ingredient name.

Sort Order	CAS #	Ingredient Name	Maximum Additive Concentration (%)	Maximum Fluid Concentration (%)	Comment
1	67-56-1	Methanol	60.00	0.00044	<input type="button" value="Delete"/>
2	68951-67-7	Ethoxylated Alcohols^ C14-15	30.00	0.00022	<input type="button" value="Delete"/>
3	68527-49-1	Modified Thiourea Polymer	30.00	0.00022	<input type="button" value="Delete"/>
4	107-19-7	Propargyl Alcohol	10.00	0.00007	<input type="button" value="Delete"/>
5	64743-02-8	Alkenes^ C>10 alpha-	5	0.0004	<input type="button" value="Delete"/>

No CAS #: Certain ingredients may not have a CAS #, such as ‘fresh water’. In these rare cases, place a “-“ (dash) in the **CAS #** column, and add a description, such as ‘fresh water’, or the term ‘Undisclosed’ in the **Ingredient Name** column. You may also leave a comment.

Proprietary or Trade Secrets: For any ingredient that is subject to a claim for exemption through the Hazardous Material Information Review Act, the registry number must be provided in the **Ingredient Comments** column. Furthermore, the generic name of the ingredient (ex. *Organic Acid*) must also be provided in the **Ingredient Name** column, where possible. Otherwise, the ingredient can be listed as ‘Undisclosed’. If the subject of the claim is solely for the chemical identity of one or more ingredients, then the CAS number(s) is/are left blank for each ingredient subject to a claim in the **CAS #** column, but the **Maximum Additive Concentration (%)** column is filled out, along with the **Maximum Fluid Concentration (%)** column for each ingredient. If the subject of the claim is to protect both the chemical identity and the concentration of one or more ingredients, then the CAS number(s) is/are left blank in

the **CAS #** column along with the **Maximum Additive Concentration (%)** column for each ingredient subject to a claim. If possible, the **Maximum Fluid Concentration (%)** column can also be filled out, but may also be left blank.

Please note: The ingredient concentrations in any additive/chemical compound may add up to more than 100 per cent, as this is the maximum ingredient concentration within the additive/chemical compound.

- g) If there are any issues with the submission it will appear in the Outstanding Issues portion of the page. In the example below, the "Fracture Date" is in the future and needs to be corrected.



OIL AND GAS COMMISSION

TKERMIT VERSION

Applications Wells Compliance & Enforcement Projects & Sites

>> Frac Fluid Report

Job #:	008671712-001	Status:	<u>New</u>
WA #:	25773	Created Date:	Nov 21, 2011
Operator:	<input type="text"/>	Fracture Date:	Jan 1, 2012
		Total Water Volume:	10,000 m ³

Overview **Finalize**

Outstanding Issues

- You must enter a value for "Fracture Date" in the past. [Overview>Frac Fluid Report Information]

Submit / Cancel

Use the following buttons to submit or cancel your Frac Fluid Report. A submitted report will no longer be editable and will be available for the public to view. A cancelled report will be discarded, cannot be edited and will not be viewable by the public.

I consent to the release of information in the form by the Commission to the public whether or not the well is subject to confidential status.

- h) To review the report in PDF format prior to submission, select the “View Report in .pdf format” button.

Hydraulic Fracturing Fluid Product Component Information Disclosure							
Fracture Date:	11/07/2011						
Province:	BC						
Region:	Sunset						
Well Number:	25773						
Operator Name:	[REDACTED]						
Well Name:	[REDACTED]						
Longitude:	-120.452849						
Latitude:	-55.571733						
Long/Lat Projection:	NAD83						
Production Type:	Undefined						
True Vertical Depth (TVD):	4,406						
Total Water Volume (m3):	10,000						
Hydraulic Fracturing Fluid Composition:							
Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Fresh Water	Mother Nature	Base/Carrier Fluid	Fresh Water	-0---	100.00%	87.85900%	
Sand (Proppant)	-	Proppant	Sand	-0---	100.00%	11.10203%	
Muno	YGG Industries	Iron Control Agent	Water	7732-18-5	60.00%	0.00158%	
			Sodium Hydroxide	1310-73-2	1.00%	0.00003%	
			Trisodium NTA	18662-53-8	40.00%	0.00105%	
			Sodium Sulfate	7757-82-6	2.00%	0.00005%	
Brobee	YGG Industries	Corrosion Inhibitor	Propargyl Alcohol	107-19-7	10.00%	0.00007%	
			Modified Thiourea Polymer	68527-49-1	30.00%	0.00022%	
			Ethoxylated Alcohols [®] C14-15	68951-67-7	30.00%	0.00022%	
			Methanol	67-56-1	60.00%	0.00044%	
			Alkenes [®] C>10 alpha-	64743-02-8	5.00%	0.00004%	
Foota	YGG Industries	Friction Reducer	Undisclosed	-0---	7.00%	0.00952%	
			Water	7732-18-5	40.00%	0.05438%	
			Poly(Acrylamide- <i>co</i> -Acrylic Acid)	9003-06-9	28.00%	0.03807%	
			Petroleum Distillate Hydrotreated Light	64742-47-8	35.00%	0.04758%	
Toodee	YGG Industries	Anti-Bacterial	Quaternary Ammonium Compound	68424-85-1	5.50%	0.00221%	
			Ethanol	64-17-5	4.00%	0.00161%	
			Didecyl Dimethyl Ammonium Chloride	7173-51-5	8.00%	0.00321%	
			Glutaraldehyde	111-30-8	27.00%	0.01084%	
Plex	YGG Industries	Scale Inhibitor	Methanol	67-56-1	30.00%	0.00352%	

3 Viewing a Frac Fluid Report

Search functionality has been provided to allow users to search for either specific complete reports, or to locate an outstanding or incomplete Frac Fluid report. This search functionality can be accessed via either the “Outstanding Reports” link or “Find Reports” link.

3.1 Outstanding Reports

To find Outstanding or Incomplete Frac Fluid reports, follow the steps below:

- a) Navigate to the “Wells” tab.
- b) Select “Outstanding Reports” link.
- c) All the outstanding Frac Fluid reports will be displayed for the company or companies to whom the logged in account has been granted access.

3.2 Finding Reports

To search for a completed or specific report, follow the steps below:

- a) Navigate to the “Wells” tab
- b) Select “Find reports” link
- c) Specify any for the following criteria for the search:
 - Job#
 - WA#
 - Status
 - Date Range (representing the period within which a specific report was submitted)
- d) All Frac Fluid reports meeting the criteria provided will be displayed for the company or companies to whom the logged in account has been granted access.

For more information or assistance with uploading your data, please log a request in our Service Desk via email (ogc.systems@bcogc.ca).



British Columbia's Hydraulic Fracture Fluid Disclosure Requirements

FAQ

Q. Where do I submit Hydraulic Fracturing Fluid Reports?

A. Reports will only be accepted electronically. Electronic submission of Fracturing Fluid Reports are accepted via the BC Oil and Gas Commission's (Commission) KERMIT database system: <https://kermit.bcogc.ca/Login.aspx>.

Q. Are submitted Hydraulic Fracturing Fluid Reports available to the public?

A. Yes, the public can search for Fracture Fluid Reports at www.fracfocus.ca and they are made available in pdf format.

Q. What are the timelines surrounding Fracture Fluid Reports?

A. Fracture Fluid Reports must be submitted within thirty days of finishing completion operations at a well.

Q. When will the submitted Fracture Fluid Report be available to the public on www.fracfocus.ca?

A. Fracture Fluid Reports will be posted to www.fracfocus.ca by the Commission immediately upon receipt.

Q. Are the Fracture Fluid Reports subject to confidentiality periods?

A. Fracture Fluid Reports are not considered "well reports or well data", thus the information contained is not subject to confidentiality periods.

Q. What will be included in a typical Fracture Fluid Report?

A. Fracture Fluid Reports mirrors those provided by US site www.FracFocus.org, so what will be required for disclosure includes:

- | | |
|-----------------------------|------------------------|
| • Fracture Date | • Longitude |
| • Province | • Latitude |
| • Region | • Long/Lat Projection |
| • Well Authorization Number | • Production Type |
| • Operator Name | • Total Expected Depth |
| • Well Name | • Total Water Volume |

In terms of the chemical disclosure, you will need to provide the following:

- | | |
|---------------|------------------------------------------------|
| • Trade Name | • Chemical Abstract Service Number (CAS #) |
| • Supplier | • Maximum ingredient concentration in additive |
| • Purpose | • Maximum ingredient concentration in HF fluid |
| • Ingredients | • Volume of water with injected ingredients |
| | • Comments, if needed |

Q: What is a Hazardous Material Information Review Act (HMIRA) Claim Exemption?

A: Within Canada, any supplier who is required, pursuant to the provisions of the Hazardous Products Act, to disclose the chemical identity or concentration of any ingredient of a controlled product may, if the supplier considers such information to be confidential business information, claim an exemption from the requirement to disclose that information by filing a claim for exemption under the Hazardous Material Information Review Act (HMIRA).

Q: How is an ingredient reported that is the subject of a claim exemption through the Hazardous Material Information Review Act (HMIRA)?

A: For any ingredient that is subject to a claim for exemption through HMIRA, the registry number must be provided in the Comments. Furthermore, the generic name of the ingredient must also be provided, where possible. Otherwise, the ingredient may be listed as 'Undisclosed'. If the subject of the claim is solely for the chemical identity of one or more ingredients, then the CAS number(s) is/are left blank for each ingredient subject to a claim, but the maximum concentration within the additive is provided, along with the maximum concentration within the fracture fluid for each ingredient. If the subject of the claim is to protect both the chemical identity and the concentration of one or more ingredients, then the CAS number(s) is/are left blank along with the concentration(s) within the additive for each ingredient subject to a claim. If possible, concentration of the ingredient within the fracture fluid can also be provided, but may also be left blank.

Q. How should an operator address a chemical with multiple names?

A. Although identical chemicals may have several names, they will have a unique CAS #, thus each ingredient has a CAS # associated with it, where practicable, to provide clear resolution as to which chemical is being referred to in the Fracture Fluid Report.

Q. What is a CAS #?

A. A CAS # is a unique identifier for chemical substances. Chemical Abstracts Service (CAS) is a division of the American Chemical Society that is responsible for the administration, quality assurance and maintenance of the CAS registry. A CAS Number itself has no inherent chemical significance but provides an unambiguous way to identify a chemical substance or molecular structure when there are many possible systematic, generic, proprietary or trivial names.

Q. Is the Fracture Fluid Report to be submitted on a per/frac basis or on a per/well basis?

A. Fracture Fluid Reports are to be submitted on a per/well basis.

Q. Will operators be notified if a well has not had a Fracture Fluid Report submitted?

A. The Commission will notify operators of non-compliance and will be working with companies to ensure that Fracture Fluid Reports are properly submitted.

Q. How should operators deal with service companies that will not provide data?

A. It is the permit holders' obligation to provide the information.

Q. What is www.fracfocus.ca?

A. The website www.fracfocus.ca provides the general public with objective information on hydraulic fracturing, water usage and chemical use by the oil and gas industry, along with groundwater protection information. It also houses a search engine that can be initiated to locate Fracture Fluid Reports within the province of B.C.

**For more information or assistance with uploading your data,
please log a request in our Service Desk via email (ogc.systems@bcogc.ca).**



www.bcogc.ca