

FracFocus Update

IOGCC Annual Meeting



Browser window showing the website <http://fracfocus.org/>. The page features the **Frac Focus** logo (Chemical Disclosure Registry) and navigation links: HYDRAULIC FRACTURING, GROUNDWATER PROTECTION, CHEMICAL USE, REGULATIONS, FIND A WELL, and FREQUENT QUESTIONS.

WELCOME

Welcome to **FracFocus**, the hydraulic fracturing chemical registry website. This website is a joint project of the Ground Water Protection Council and the Interstate Oil and Gas Compact Commission.

On this site you can search for information about the chemicals used in the hydraulic fracturing of oil and gas wells. You will also find educational materials designed to help you put this information in perspective.

[LEARN MORE >](#)

Looking for information about a well site near you?

Search for nearby well sites that have been hydraulically fractured to see what chemicals were used in the process.

FAQs

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Q. What chemicals are being disclosed on this website?

A. All chemicals that would appear on a Material Safety Data Sheet (MSDS) that are used to hydraulically fracture a well except for those that can be kept proprietary based on the "Trade Secret" provisions related to MSDS found on the Trade Secret link at 1910.1200(i)(1). [Read more...](#)

[All FAQs >](#)

Is groundwater protected?

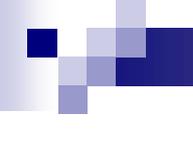
Groundwater Protection: Priority Number One

Oil and natural gas producers have stringent requirements for how wells must be completed. The genesis of these requirements is water safety.

Casing is the first line of defense used to protect freshwater aquifers.

[More About Groundwater Protection >](#)

100%



Participating companies = 66

Reporting companies = 49

Wells reported = 5292

Website visits = 85,105

Unique visitors = 65,385

Countries = 125

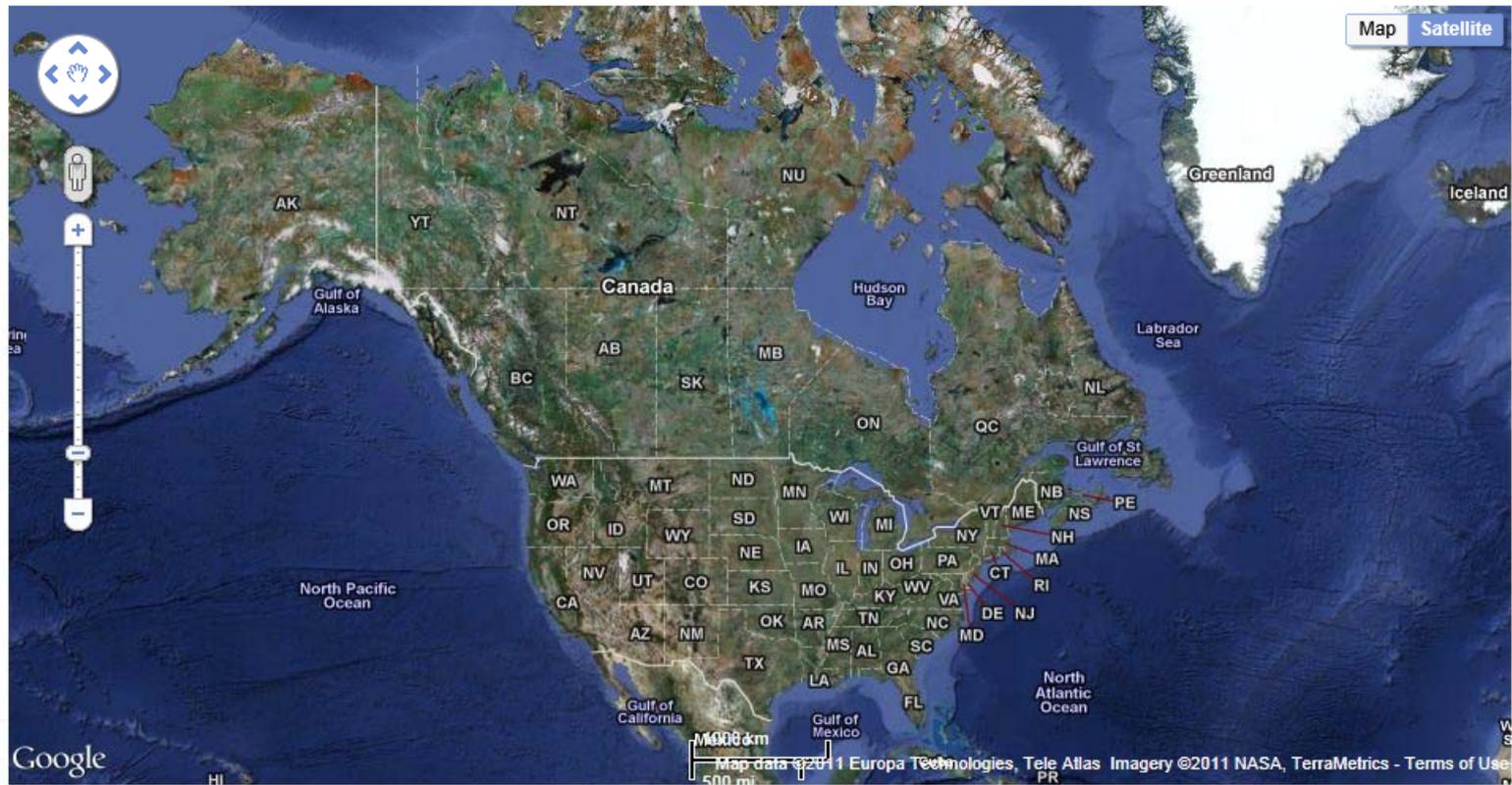
Find a Well

Map Search Standard Search

STATE: COUNTY: WELLS IN COUNTY: OPERATOR:

API WELL NUMBER: WELL NAME:

Search Reset



Find a Well

Map Search Standard Search

STATE: COUNTY: WELLS IN COUNTY: OPERATOR:

API WELL NUMBER: WELL NAME:

Search Reset

Map Satellite

PDF

API Number: 2508521794
Well Name: French 21-30 TFH
Operator: Whiting Petroleum
Job Date: 9/25/2011

16

500 m

Google Map data ©2011 Google, Imagery ©2011 Cnes/Spot Image, DigitalGlobe, GeoEye, USDA Farm Service Agency - Terms of Use

Hydraulic Fracturing Fluid Product Component Information Disclosure

Fracture Date:	9/25/2011
State:	Montana
County:	Roosevelt
API Num ber:	2508521794
Operator Name:	WHITING OIL & GAS CORP EBUSINESS
Well Name and Num ber:	French 21-30 TFH
Longitude:	-104.489019
Latitude:	48.243567
Long/Lat Projection:	NAD83
Production Type:	Oil
True Vertical Depth (TVD):	9,854
Total Water Volume (gal)**:	1,469,839

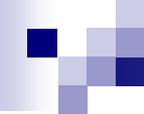
Hydraulic Fracturing Fluid Composition

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	Operator				100.00%	98.25288%	Density = 8.330
SSA-2	Halliburton	Sand	Crystalline silica, quartz	14808-80-7	100.00%	0.93632%	
SAND - PREMIUM WHITE	Halliburton	Proppant	Crystalline silica, quartz	14808-80-7	100.00%	3.46677%	
SAND - PREMIUM WHITE	Halliburton	Proppant	Crystalline silica, quartz	14808-80-7	100.00%	6.75146%	
LoSurf-300D	Halliburton	Surfactant	1,2,4 Trimethylbenzene	95-63-6	1.00%	0.00086%	
			Ethanol	64-17-5	60.00%	0.05181%	
			Heavy aromatic petroleum naphtha	84742-84-5	30.00%	0.02591%	
			Naphthalene	91-20-3	5.00%	0.00432%	
			Poly(oxy-1,2-ethanediy)l, alpha-(4-nonylphenyl)-omega-hydroxy-, branched	127087-87-0	5.00%	0.00432%	
VICON NF BREAKER	Halliburton	Breaker	Chlorous acid, sodium salt	7758-19-2	10.00%	0.02554%	
			Sodium chloride	7647-14-5	30.00%	0.07662%	
CAT-3 ACTIVATOR	Halliburton	Activator	EDTA/Copper chelate	Confidential Business Information	30.00%	0.00453%	
Clayfix 3W	Halliburton	Clay Control	Ethylene glycol	107-21-1	10.00%	0.00729%	
			Sodium chloride	7647-14-5	30.00%	0.02187%	
MO-87	Halliburton	Buffer	Sodium hydroxide	1310-73-2	30.00%	0.00147%	
CL-37M Crosslinker	Halliburton	Crosslinker	Glycerine	56-81-5	10.00%	0.00034%	
			Methanol	67-58-1	60.00%	0.00206%	
			Propanol	71-23-8	10.00%	0.00034%	
			Triethanolamine zirconate	101033-44-7	60.00%	0.00206%	
CL-31 CROSSLINKER	Halliburton	Crosslinker	Potassium hydroxide	1310-58-3	5.00%	0.00086%	
			Potassium metaborate	13709-84-9	60.00%	0.01028%	
FR-66	Halliburton	Friction Reducer	Hydrotreated light petroleum distillate	84742-47-8	30.00%	0.00899%	
WG-18 GELLING AGENT	Halliburton	Gelling Agent	Guar gum derivative	Confidential Business Information	100.00%	0.10474%	
OptiKeen-WF™	Halliburton	Surfactant	Sodium perborate tetrahydrate	10486-00-7	100.00%	0.00263%	

** Total Water Volume sources may include fresh water, produced water, and/or recycled water

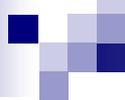
** Information is based on the maximum potential for concentration and thus the total may be over 100%

All component information listed was obtained from the supplier's Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of the MSDS should be directed to the supplier who provided it. The Occupational Safety and Health Administration's (OSHA) regulations govern the criteria for the disclosure of this information. Please note that



FracFocus for State Needs

- Full Disclosure
- OSHA vs. ECRCA Reporting Standards
- State Data Needs Requirement
- State Notifications
- State to FracFocus Bi-directional Data Flow
- Enhanced Search Abilities



FracFocus's Evolution

- Improved State HF Data Systems
- The Oil and Gas Portal

- Public Information will continue to improve.