

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	08/12/2023
Job End Date:	09/02/2023
State:	Pennsylvania
County:	Allegheny
API Number:	37-003-22314-00-02
Operator Name:	CNX Gas Company LLC
Well Name and Number:	ACAA4A
Latitude:	40.479924
Longitude:	-80.237209
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6002
Total Base Water Volume (gal)*:	15967266
Total Base Non Water Volume:	0



Hydraulic Fracturing Fluid Composition:

Ingredient	CAS Number	% HF Fluid
Water	7732-18-5	83.07346%
Crystalline silica, quartz	14808-60-7	16.81600%
Hydrochloric acid	7647-01-0	0.01619%
Aliphatic Hydrocarbons	90622-53-0	0.01526%
Polyquaternium-33	69418-26-4	0.01526%
Glutaraldehyde	111-30-8	0.00202%
Alcohols, C12-16, ethoxylated	68551-12-2	0.00191%
Polyacrylamide	9003-05-8	0.00063%
Didecyl dimethyl ammonium chloride	7173-51-5	0.00030%
Quaternary Ammonium Compounds	68424-85-1	0.00030%
Citric acid	77-92-9	0.00019%
Methanol	67-56-1	0.00018%
Ethanol	64-17-5	0.00015%
Sodium polyacrylate	9003-04-7	0.00013%
Hydrotreated light petroleum distillate	64742-47-8	0.00006%
Ethylene glycol	107-21-1	0.00005%

N,N-dimethylformamide	68-12-2	0.00003%
2-Butoxyethanol	111-76-2	0.00001%
Alcohol, C11-14, ethoxylated	78330-21-9	0.00001%
Cinnamaldehyde	104-55-2	0.00001%
Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched	127087-87-0	0.00001%
Tar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7	0.00001%

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	08/12/2023
Job End Date:	09/09/2023
State:	Pennsylvania
County:	Allegheny
API Number:	37-003-22320-00-03
Operator Name:	CNX Gas Company LLC
Well Name and Number:	ACAA4G
Latitude:	40.479869
Longitude:	-80.237211
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6003
Total Base Water Volume (gal)*:	14451990
Total Base Non Water Volume:	0



Hydraulic Fracturing Fluid Composition:

Ingredient	CAS Number	% HF Fluid
Water	7732-18-5	82.88839%
Crystalline silica, quartz	14808-60-7	17.01145%
Aliphatic Hydrocarbons	90622-53-0	0.01472%
Polyquaternium-33	69418-26-4	0.01472%
Hydrochloric acid	7647-01-0	0.01362%
Glutaraldehyde	111-30-8	0.00202%
Alcohols, C12-16, ethoxylated	68551-12-2	0.00184%
Polyacrylamide	9003-05-8	0.00063%
Didecyl dimethyl ammonium chloride	7173-51-5	0.00030%
Quaternary Ammonium Compounds	68424-85-1	0.00030%
Citric acid	77-92-9	0.00018%
Methanol	67-56-1	0.00018%
Ethanol	64-17-5	0.00015%
Sodium polyacrylate	9003-04-7	0.00013%
Ethylene glycol	107-21-1	0.00005%
N,N-dimethylformamide	68-12-2	0.00003%

2-Butoxyethanol	111-76-2	0.00001%
Cinnamaldehyde	104-55-2	0.00001%
Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branche	127087-87-0	0.00001%
Tar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7	0.00001%

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	08/12/2023
Job End Date:	09/06/2023
State:	Pennsylvania
County:	Allegheny
API Number:	37-003-22321-00-03
Operator Name:	CNX Gas Company LLC
Well Name and Number:	ACAA4H
Latitude:	40.479814
Longitude:	-80.237215
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6005
Total Base Water Volume (gal)*:	15115170
Total Base Non Water Volume:	0



Hydraulic Fracturing Fluid Composition:

Ingredient	CAS Number	% HF Fluid
Water	7732-18-5	82.88999%
Crystalline silica, quartz	14808-60-7	17.01407%
Aliphatic Hydrocarbons	90622-53-0	0.01502%
Polyquaternium-33	69418-26-4	0.01502%
Hydrochloric acid	7647-01-0	0.01217%
Glutaraldehyde	111-30-8	0.00214%
Alcohols, C12-16, ethoxylated	68551-12-2	0.00188%
Polyacrylamide	9003-05-8	0.00066%
Didecyl dimethyl ammonium chloride	7173-51-5	0.00032%
Quaternary Ammonium Compounds	68424-85-1	0.00032%
Citric acid	77-92-9	0.00028%
Methanol	67-56-1	0.00022%
Ethanol	64-17-5	0.00016%
Sodium polyacrylate	9003-04-7	0.00013%
Ethylene glycol	107-21-1	0.00006%
N,N-dimethylformamide	68-12-2	0.00003%

2-Butoxyethanol	111-76-2	0.00002%
Cinnamaldehyde	104-55-2	0.00002%
Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched	127087-87-0	0.00002%
Tar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7	0.00002%

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	08/12/2023
Job End Date:	09/07/2023
State:	Pennsylvania
County:	Allegheny
API Number:	37-003-22322-00-03
Operator Name:	CNX Gas Company LLC
Well Name and Number:	ACAA4I
Latitude:	40.479759
Longitude:	-80.237217
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6008
Total Base Water Volume (gal)*:	14869512
Total Base Non Water Volume:	0



Hydraulic Fracturing Fluid Composition:

Ingredient	CAS Number	% HF Fluid
Water	7732-18-5	82.99381%
Crystalline silica, quartz	14808-60-7	16.91670%
Aliphatic Hydrocarbons	90622-53-0	0.01525%
Polyquaternium-33	69418-26-4	0.01525%
Hydrochloric acid	7647-01-0	0.01028%
Glutaraldehyde	111-30-8	0.00214%
Alcohols, C12-16, ethoxylated	68551-12-2	0.00191%
Polyacrylamide	9003-05-8	0.00066%
Didecyl dimethyl ammonium chloride	7173-51-5	0.00032%
Quaternary Ammonium Compounds	68424-85-1	0.00032%
Citric acid	77-92-9	0.00025%
Methanol	67-56-1	0.00019%
Ethanol	64-17-5	0.00016%
Sodium polyacrylate	9003-04-7	0.00013%
Ethylene glycol	107-21-1	0.00005%
N,N-dimethylformamide	68-12-2	0.00003%

2-Butoxyethanol	111-76-2	0.00001%
Cinnamaldehyde	104-55-2	0.00001%
Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branchi	127087-87-0	0.00001%
Tar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7	0.00001%