



Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date: 11/06/2024
Job End Date: 11/29/2024
State: Pennsylvania
County: Washington
API Number: 37-125-29088-00-00
Operator Name: CNX Gas Company LLC
Well Name and Number: NV113AHSM
Latitude: 40.024272
Longitude: -80.333326
Datum: NAD83
Federal Well: NO
Indian Well: NO
True Vertical Depth: 7910
Total Base Water Volume (gal)*: 32465958
Total Base Non Water Volume: 0

Hydraulic Fracturing Fluid Composition

Ingredient	CAS Number	% HF Fluid
Water	7732-18-5	83.32506
Crystalline Silica in the form of Quartz	14808-60-7	16.53858
Acrylamide-Chloride Salt of Trimethylammonio-Ethyl Acrylate Copolymer	69418-26-4	0.03045
Alkanes, C12-26-Branched and Linear	90622-53-0	0.03045
Hydrogen chloride	7647-01-0	0.01381
Ethoxylated Alcohols (C12-16)	68551-12-2	0.00381
Glutaraldehyde	111-30-8	0.00203
Acrylamide Polymer	69418-26-4	0.00079
Mineral Oil	64742-47-8	0.00074
AA/ATBS Co-polymer	9003-05-8	0.00055
AA/Maleic Anhydride Co-polymer	9003-04-7	0.00055
Didecyl dimethyl ammonium chloride	7173-51-5	0.00031
Quaternary Ammonium Compounds	68424-85-1	0.00031
Citric acid	77-92-9	0.00017
Methyl alcohol	67-56-1	0.00017
Surfactant	1338-43-8	0.00016
Ethanol	64-17-5	0.00015
Ammonium Chloride	12125-02-9	0.00013
Ethylene glycol	107-21-1	0.00005
N,N-Dimethylformamide	68-12-2	0.00002
2-Butoxyethanol	111-76-2	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-quat	72480-70-7	0.00001



Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date: 11/06/2024
Job End Date: 11/29/2024
State: Pennsylvania
County: Washington
API Number: 37-125-29089-00-00
Operator Name: CNX Gas Company LLC
Well Name and Number: NV113BHSM
Latitude: 40.024287
Longitude: -80.333258
Datum: NAD83
Federal Well: NO
Indian Well: NO
True Vertical Depth: 7938
Total Base Water Volume (gal)*: 27682410
Total Base Non Water Volume: 0

Hydraulic Fracturing Fluid Composition

Ingredient	CAS Number	% HF Fluid
Water	7732-18-5	83.51225
Crystalline Silica in the form of Quartz	14808-60-7	16.33737
Acrylamide-Chloride Salt of Trimethylammonio-Ethyl Acrylate Copolymer	69418-26-4	0.03057
Alkanes, C12-26-Branched and Linear	90622-53-0	0.03057
Hydrogen chloride	7647-01-0	0.01775
Ethoxylated Alcohols (C12-16)	68551-12-2	0.00382
Glutaraldehyde	111-30-8	0.00203
Acrylamide Polymer	69418-26-4	0.00069
Mineral Oil	64742-47-8	0.00064
AA/ATBS Co-polymer	9003-05-8	0.00055
AA/Maleic Anhydride Co-polymer	9003-04-7	0.00055
Didecyl dimethyl ammonium chloride	7173-51-5	0.00030
Quaternary Ammonium Compounds	68424-85-1	0.00030
Citric acid	77-92-9	0.00021
Methyl alcohol	67-56-1	0.00021
Ethanol	64-17-5	0.00015
Surfactant	1338-43-8	0.00014
Ammonium Chloride	12125-02-9	0.00011
Ethylene glycol	107-21-1	0.00006
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-, branched	127087-87-0	0.00001
Tar Bases, quinoline derivs, benzyl chloride-quat	72480-70-7	0.00001



Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date: 11/06/2024
Job End Date: 11/28/2024
State: Pennsylvania
County: Washington
API Number: 37-125-29047-00-00
Operator Name: CNX Gas Company LLC
Well Name and Number: NV113CHSM
Latitude: 40.024324
Longitude: -80.333346
Datum: NAD83
Federal Well: NO
Indian Well: NO
True Vertical Depth: 7861
Total Base Water Volume (gal)*: 19891284
Total Base Non Water Volume: 0

Hydraulic Fracturing Fluid Composition

Ingredient	CAS Number	% HF Fluid
Water	7732-18-5	83.43601
Crystalline Silica in the form of Quartz	14808-60-7	16.41441
Acrylamide-Chloride Salt of Trimethylammonio-Ethyl Acrylate Copolymer	69418-26-4	0.02988
Alkanes, C12-26-Branched and Linear	90622-53-0	0.02988
Hydrogen chloride	7647-01-0	0.01788
Ethoxylated Alcohols (C12-16)	68551-12-2	0.00373
Glutaraldehyde	111-30-8	0.00203
Acrylamide Polymer	69418-26-4	0.00076
Mineral Oil	64742-47-8	0.00071
AA/ATBS Co-polymer	9003-05-8	0.00055
AA/Maleic Anhydride Co-polymer	9003-04-7	0.00055
Didecyl dimethyl ammonium chloride	7173-51-5	0.00030
Quaternary Ammonium Compounds	68424-85-1	0.00030
Citric acid	77-92-9	0.00021
Methyl alcohol	67-56-1	0.00021
Ethanol	64-17-5	0.00015
Surfactant	1338-43-8	0.00015
Ammonium Chloride	12125-02-9	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-quat	72480-70-7	0.00002



Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date: 11/30/2024
Job End Date: 12/10/2024
State: Pennsylvania
County: Washington
API Number: 37-125-29090-00-00
Operator Name: CNX Gas Company LLC
Well Name and Number: NV113DHSM
Latitude: 40.024339
Longitude: -80.333277
Datum: NAD83
Federal Well: NO
Indian Well: NO
True Vertical Depth: 7750
Total Base Water Volume (gal)*: 12591054
Total Base Non Water Volume: 0

Hydraulic Fracturing Fluid Composition

Ingredient	CAS Number	% HF Fluid
Water	7732-18-5	82.93331
Crystalline Silica in the form of Quartz	14808-60-7	16.95236
Acrylamide-Chloride Salt of Trimethylammonio-Ethyl Acrylate Copolymer	69418-26-4	0.02364
Alkanes, C12-26-Branched and Linear	90622-53-0	0.02364
Hydrogen chloride	7647-01-0	0.01149
Ethoxylated Alcohols (C12-16)	68551-12-2	0.00296
Glutaraldehyde	111-30-8	0.00202
Acrylamide Polymer	69418-26-4	0.00101
Mineral Oil	64742-47-8	0.00094
AA/ATBS Co-polymer	9003-05-8	0.00055
AA/Maleic Anhydride Co-polymer	9003-04-7	0.00055
Didecyl dimethyl ammonium chloride	7173-51-5	0.00030
Quaternary Ammonium Compounds	68424-85-1	0.00030
Surfactant	Proprietary	0.00020
Ammonium Chloride	12125-02-9	0.00017
Ethanol	64-17-5	0.00015
Citric acid	77-92-9	0.00015
Methyl alcohol	67-56-1	0.00015
Ethylene glycol	107-21-1	0.00004
N,N-Dimethylformamide	68-12-2	0.00002
2-Butoxyethanol	111-76-2	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-quat	72480-70-7	0.00001



Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date: 11/30/2024
 Job End Date: 12/09/2024
 State: Pennsylvania
 County: Washington
 API Number: 37-125-29091-00-00
 Operator Name: CNX Gas Company LLC
 Well Name and Number: NV113EHSM
 Latitude: 40.024353
 Longitude: -80.333208
 Datum: NAD83
 Federal Well: NO
 Indian Well: NO
 True Vertical Depth: 7756
 Total Base Water Volume (gal)*: 12782742
 Total Base Non Water Volume: 0

Hydraulic Fracturing Fluid Composition

Ingredient	CAS Number	% HF Fluid
Water	7732-18-5	82.82854
Crystalline Silica in the form of Quartz	14808-60-7	17.05671
Acrylamide-Chloride Salt of Trimethylammonio-Ethyl Acrylate Copolymer	69418-26-4	0.02398
Alkanes, C12-26-Branched and Linear	90622-53-0	0.02398
Hydrogen chloride	7647-01-0	0.01138
Ethoxylated Alcohols (C12-16)	68551-12-2	0.00300
Glutaraldehyde	111-30-8	0.00202
Acrylamide Polymer	69418-26-4	0.00101
Mineral Oil	64742-47-8	0.00094
AA/ATBS Co-polymer	9003-05-8	0.00055
AA/Maleic Anhydride Co-polymer	9003-04-7	0.00055
Didecyl dimethyl ammonium chloride	7173-51-5	0.00030
Quaternary Ammonium Compounds	68424-85-1	0.00030
Surfactant	1338-43-8	0.00020
Ammonium Chloride	12125-02-9	0.00017
Ethanol	64-17-5	0.00015
Citric acid	77-92-9	0.00014
Methyl alcohol	67-56-1	0.00014
Ethylene glycol	107-21-1	0.00004
N,N-Dimethylformamide	68-12-2	0.00002
2-Butoxyethanol	111-76-2	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-quat	72480-70-7	0.00001



Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date: 11/30/2024
Job End Date: 12/08/2024
State: Pennsylvania
County: Washington
API Number: 37-125-29092-00-00
Operator Name: CNX Gas Company LLC
Well Name and Number: NV113FHSM
Latitude: 40.024301
Longitude: -80.333189
Datum: NAD83
Federal Well: NO
Indian Well: NO
True Vertical Depth: 7729
Total Base Water Volume (gal)*: 9259992
Total Base Non Water Volume: 0

Hydraulic Fracturing Fluid Composition

Ingredient	CAS Number	% HF Fluid
Water	7732-18-5	83.58849
Crystalline Silica in the form of Quartz	14808-60-7	16.28139
Acrylamide-Chloride Salt of Trimethylammonio-Ethyl Acrylate Copolymer	69418-26-4	0.02452
Alkanes, C12-26-Branched and Linear	90622-53-0	0.02452
Hydrogen chloride	7647-01-0	0.01554
Ethoxylated Alcohols (C12-16)	68551-12-2	0.00307
Glutaraldehyde	111-30-8	0.00203
Acrylamide Polymer	69418-26-4	0.00102
Mineral Oil	64742-47-8	0.00095
AA/ATBS Co-polymer	9003-05-8	0.00055
AA/Maleic Anhydride Co-polymer	9003-04-7	0.00055
Didecyl dimethyl ammonium chloride	7173-51-5	0.00030
Quaternary Ammonium Compounds	68424-85-1	0.00030
Surfactant	1338-43-8	0.00020
Citric acid	77-92-9	0.00019
Methyl alcohol	67-56-1	0.00019
Ammonium Chloride	12125-02-9	0.00017
Ethanol	64-17-5	0.00015
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-, branched	127087-87-0	0.00001
Tar Bases, quinoline derivs, benzyl chloride-quat	72480-70-7	0.00001