



Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date: 03/17/2025

Job End Date: 04/05/2025

State: Pennsylvania

County: Westmoreland

API Number: 37-129-29250-00-00

Operator Name: CNX Gas Company LLC

Well Name and Number: MAM16KHSU

Latitude: 40.53893

Longitude: -79.539933

Datum: NAD83

Federal Well: NO

Indian Well: NO

True Vertical Depth: 13786

Total Base Water Volume (gal)*: 27679890 Total Base Non Water Volume: 0

Hydraulic Fracturing Fluid Composition

Ingredient	CAS Number	% HF Fluid
Water	7732-18-5	86.14670
Crystalline Silica in the form of Quartz	14808-60-7	13.64996
Acrylamide-Chloride Salt of Trimethylammonio-Ethyl Acrylate Copolymer	69418-26-4	0.04874
Alkanes, C12-26-Branched and Linear	90622-53-0	0.04874
Hydrogen chloride	7647-01-0	0.02187
Ethoxylated Alcohols (C12-16)	68551-12-2	0.00609
Glutaraldehyde	111-30-8	0.00214
AA/ATBS Co-polymer	9003-05-8	0.00209
AA/Maleic Anhydride Co-polymer	9003-04-7	0.00209
Didecyl dimethyl ammonium chloride	7173-51-5	0.00032
Quaternary Ammonium Compounds	68424-85-1	0.00032
Citric acid	77-92-9	0.00027
Methyl alcohol	67-56-1	0.00026
Distillates (petroleum), hydrotreated light	64742-47-8	0.00018
Ethanol	64-17-5	0.00016
Ethylene glycol	107-21-1	0.00008
N,N-Dimethylformamide	68-12-2	0.00004
Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	0.00004
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: 03/17/2025

Job End Date: 04/05/2025

State: Pennsylvania

County: Westmoreland

API Number: 37-129-29249-00-00

Operator Name: CNX Gas Company LLC

Well Name and Number: MAM16LHSU

Latitude: 40.53893

Longitude: -79.539933

Datum: NAD83

Federal Well: NO

Indian Well: NO

True Vertical Depth: 13559

Total Base Water Volume (gal)*: 33446070

Total Base Non Water Volume: 0

Hydraulic Fracturing Fluid Composition

Ingredient	CAS Number	% HF Fluid
Water	7732-18-5	86.14645
Crystalline Silica in the form of Quartz	14808-60-7	13.65166
Acrylamide-Chloride Salt of Trimethylammonio-Ethyl Acrylate Copolymer	69418-26-4	0.04439
Alkanes, C12-26-Branched and Linear	90622-53-0	0.04439
Hydrogen chloride	7647-01-0	0.02281
Ethoxylated Alcohols (C12-16)	68551-12-2	0.00555
Distillates (petroleum), hydrotreated light	64742-47-8	0.00377
AA/ATBS Co-polymer	9003-05-8	0.00215
AA/Maleic Anhydride Co-polymer	9003-04-7	0.00215
Glutaraldehyde	111-30-8	0.00214
Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	0.00075
Didecyl dimethyl ammonium chloride	7173-51-5	0.00032
Quaternary Ammonium Compounds	68424-85-1	0.00032
Citric acid	77-92-9	0.00028
Methyl alcohol	67-56-1	0.00028
Ethanol	64-17-5	0.00016
Ethylene glycol	107-21-1	0.00008
N,N-Dimethylformamide	68-12-2	0.00004
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: 03/07/2025

Job End Date: 03/15/2025

State: Pennsylvania

County: Westmoreland

API Number: 37-129-29210-00-00

Operator Name: CNX Gas Company LLC

Well Name and Number: MAM16PHSM

Latitude: 40.53893

Longitude: -79.539933

Datum: NAD83

Federal Well: NO

Indian Well: NO

True Vertical Depth: 8053

Total Base Water Volume (gal)*: 20769966

Total Base Non Water Volume: 0

Hydraulic Fracturing Fluid Composition

Ingredient	CAS Number	% HF Fluid
Water	7732-18-5	83.45966
Crystalline Silica in the form of Quartz	14808-60-7	16.48182
Distillates (petroleum), hydrotreated light	64742-47-8	0.01876
Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	0.00375
Hydrogen chloride	7647-01-0	0.00359
Glutaraldehyde	111-30-8	0.00202
AA/ATBS Co-polymer	9003-05-8	0.00189
AA/Maleic Anhydride Co-polymer	9003-04-7	0.00189
Didecyl dimethyl ammonium chloride	7173-51-5	0.00030
Quaternary Ammonium Compounds	68424-85-1	0.00030
Ethanol	64-17-5	0.00015
Citric acid	77-92-9	0.00004
Methyl alcohol	67-56-1	0.00004
Ethylene glycol	107-21-1	0.00001
N,N-Dimethylformamide	68-12-2	0.00001
2-Butoxyethanol	111-76-2	0.00000
Cinnamaldehyde	104-55-2	0.00000
Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched	127087-87-0	0.00000
Tar Bases, quinoline derivs, benzyl chloride-quat	72480-70-7	0.00000



Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date: 03/07/2025
Job End Date: 03/15/2025
State: Pennsylvania
County: Westmoreland
API Number: 37-129-29209-00-00
Operator Name: CNX Gas Company LLC
Well Name and Number: MAM16QHSM
Latitude: 40.53893
Longitude: -79.539933
Datum: NAD83
Federal Well: NO
Indian Well: NO
True Vertical Depth: 7708
Total Base Water Volume (gal)*: 19446084
Total Base Non Water Volume: 0

Hydraulic Fracturing Fluid Composition

Ingredient	CAS Number	% HF Fluid
Water	7732-18-5	83.37757
Crystalline Silica in the form of Quartz	14808-60-7	16.56589
Distillates (petroleum), hydrotreated light	64742-47-8	0.01833
Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	0.00367
Hydrogen chloride	7647-01-0	0.00317
Glutaraldehyde	111-30-8	0.00201
AA/ATBS Co-polymer	9003-05-8	0.00189
AA/Maleic Anhydride Co-polymer	9003-04-7	0.00189
Didecyl dimethyl ammonium chloride	7173-51-5	0.00030
Quaternary Ammonium Compounds	68424-85-1	0.00030
Ethanol	64-17-5	0.00015
Citric acid	77-92-9	0.00004
Methyl alcohol	67-56-1	0.00004
Ethylene glycol	107-21-1	0.00001
N,N-Dimethylformamide	68-12-2	0.00001
2-Butoxyethanol	111-76-2	0.00000
Cinnamaldehyde	104-55-2	0.00000
Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched	127087-87-0	0.00000
Tar Bases, quinoline derivs, benzyl chloride-quat	72480-70-7	0.00000



Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date: 02/17/2025

Job End Date: 03/06/2025

State: Pennsylvania

County: Westmoreland

API Number: 37-129-29198-00-00

Operator Name: CNX Gas Company LLC

Well Name and Number: MAM16RHSM

Latitude: 40.53893

Longitude: -79.539933

Datum: NAD83

Federal Well: NO

Indian Well: NO

True Vertical Depth: 7553

Total Base Water Volume (gal)*: 18923562

Total Base Non Water Volume: 0

Hydraulic Fracturing Fluid Composition

Ingredient	CAS Number	% HF Fluid
Water	7732-18-5	83.20015
Crystalline Silica in the form of Quartz	14808-60-7	16.74689
Distillates (petroleum), hydrotreated light	64742-47-8	0.01564
Hydrogen chloride	7647-01-0	0.00335
Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	0.00313
Glutaraldehyde	111-30-8	0.00203
AA/ATBS Co-polymer	9003-05-8	0.00128
AA/Maleic Anhydride Co-polymer	9003-04-7	0.00128
Didecyl dimethyl ammonium chloride	7173-51-5	0.00031
Quaternary Ammonium Compounds	68424-85-1	0.00031
Ethanol	64-17-5	0.00015
Citric acid	77-92-9	0.00004
Methyl alcohol	67-56-1	0.00004
Ethylene glycol	107-21-1	0.00001
N,N-Dimethylformamide	68-12-2	0.00001
2-Butoxyethanol	111-76-2	0.00000
Cinnamaldehyde	104-55-2	0.00000
Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched	127087-87-0	0.00000
Tar Bases, quinoline derivs, benzyl chloride-quat	72480-70-7	0.00000



Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date: 02/17/2025

Job End Date: 03/06/2025

State: Pennsylvania

County: Westmoreland

API Number: 37-129-29197-00-00

Operator Name: CNX Gas Company LLC

Well Name and Number: MAM16SHSM

Latitude: 40.53893

Longitude: -79.539933

Datum: NAD83

Federal Well: NO

Indian Well: NO

True Vertical Depth: 7506

Total Base Water Volume (gal)*: 18704238

Total Base Non Water Volume: 0

Hydraulic Fracturing Fluid Composition

Ingredient	CAS Number	% HF Fluid
Water	7732-18-5	83.52463
Crystalline Silica in the form of Quartz	14808-60-7	16.41757
Distillates (petroleum), hydrotreated light	64742-47-8	0.01582
Hydrogen chloride	7647-01-0	0.00468
Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	0.00316
Glutaraldehyde	111-30-8	0.00205
AA/ATBS Co-polymer	9003-05-8	0.00137
AA/Maleic Anhydride Co-polymer	9003-04-7	0.00137
Didecyl dimethyl ammonium chloride	7173-51-5	0.00031
Quaternary Ammonium Compounds	68424-85-1	0.00031
Ethanol	64-17-5	0.00015
Citric acid	77-92-9	0.00005
Methyl alcohol	67-56-1	0.00005
Ethylene glycol	107-21-1	0.00001
N,N-Dimethylformamide	68-12-2	0.00001
2-Butoxyethanol	111-76-2	0.00000
Cinnamaldehyde	104-55-2	0.00000
Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched	127087-87-0	0.00000
Tar Bases, quinoline derivs, benzyl chloride-quat	72480-70-7	0.00000



Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date: 02/16/2025

Job End Date: 03/05/2025

State: Pennsylvania

County: Westmoreland

API Number: 37-129-29196-00-00

Operator Name: CNX Gas Company LLC

Well Name and Number: MAM16THSM

Latitude: 40.53893

Longitude: -79.539933

Datum: NAD83

Federal Well: NO

Indian Well: NO

True Vertical Depth: 7731

Total Base Water Volume (gal)*: 17157714

Total Base Non Water Volume: 0

Hydraulic Fracturing Fluid Composition

Ingredient	CAS Number	% HF Fluid
Water	7732-18-5	83.25073
Crystalline Silica in the form of Quartz	14808-60-7	16.68502
Distillates (petroleum), hydrotreated light	64742-47-8	0.01707
Hydrogen chloride	7647-01-0	0.00596
Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	0.00341
Glutaraldehyde	111-30-8	0.00204
AA/ATBS Co-polymer	9003-05-8	0.00141
AA/Maleic Anhydride Co-polymer	9003-04-7	0.00141
Didecyl dimethyl ammonium chloride	7173-51-5	0.00031
Quaternary Ammonium Compounds	68424-85-1	0.00031
Ethanol	64-17-5	0.00015
Citric acid	77-92-9	0.00007
Methyl alcohol	67-56-1	0.00007
Ethylene glycol	107-21-1	0.00002
N,N-Dimethylformamide	68-12-2	0.00001
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