

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	02/22/2024
Job End Date:	03/05/2024
State:	Pennsylvania
County:	Westmoreland
API Number:	37-129-29141-00-01
Operator Name:	CNX Gas Company LLC
Well Name and Number:	MCCULLOUGH MAM16MHSU
Latitude:	40.538918
Longitude:	-79.539837
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7637
Total Base Water Volume (gal)*:	20277348
Total Base Non Water Volume:	0



Hydraulic Fracturing Fluid Composition:

Ingredient	CAS Number	% HF Fluid
Water	7732-18-5	86.33155%
Crystalline Silica in the form of Quartz	14808-60-7	13.44328%
Polyacrylamide	9003-05-8	0.04953%
Distillates (petroleum), hydrotreated light	64742-47-8	0.03095%
Choline Chloride	67-48-1	0.02597%
Hydrogen chloride	7647-01-0	0.02585%
Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	0.00619%
Glutaraldehyde	111-30-8	0.00211%
AA/ATBS Co-polymer	9003-05-8	0.00154%
AA/Maleic Anhydride Co-polymer	9003-04-7	0.00154%
Didecyl dimethyl ammonium chloride	7173-51-5	0.00032%
Quaternary Ammonium Compounds	68424-85-1	0.00032%
Citric acid	77-92-9	0.00031%
Methyl alcohol	67-56-1	0.00031%
Ethanol	64-17-5	0.00016%
Ethylene glycol	107-21-1	0.00009%
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%