

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	9/7/2023
Job End Date:	10/8/2023
State:	Texas
County:	Ward
API Number:	42-475-38551-00-00
Operator Name:	Continental Resources, Inc
Well Name and Number:	UTL 0708M #0713H
Latitude:	31.62378500
Longitude:	-103.23837900
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	10,686
Total Base Water Volume (gal):	20,615,829
Total Base Non Water Volume:	1,036,263



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
Water	Operator	Base Carrier Fluid	Water	7732-18-5	100.00000	88.51985	
Sand	Multiple Suppliers	Proppants	Silicon Dioxide	14808-60-7	100.00000	11.28591	
AceFlow 3300	Ace Completions, LLC	Friction Reducers	Distillates, C8-C26, branched and linear	848301-67-7	70.00000	0.05414	
			Polyacrylamide	9000-30-0	50.00000	0.03867	
			Alcohol ethoxylate	68154-97-2	5.00000	0.00387	
			Styrene	Proprietary	5.00000	0.00387	
15% Hydrochloric Acid	Multiple Suppliers	Scale Dissolver	Water	7732-18-5	85.00000	0.05889	
			36% Hydrochloric Acid	7647-01-0	15.00000	0.01039	
SI-625(D-100)	ACE Completions	Scale Inhibitors	Water	7732-18-5	90.00000	0.01379	
			Diethylenetriamine penta methyphosphoric acid sodium salts	22042-96-2	20.00000	0.00307	
			Potassium hydroxide solution	1310-58-3	2.00000	0.00031	

Aceflow 9350	Ace Fluid Solutions	Friction Reducers					
			Distillates (petroleum), hydrotreated light	6742-47-8	45.00000	0.00787	
			Poly (oxy-1, 2-ethanediyl), a-tridecyl-w-hydroxy-, branched	69011-36-5	3.00000	0.00052	
FR-533	SNF	Friction Reducers					
			Distillates(petroleum), hydrotreated light	64742-47-8	45.00000	0.00137	
			Water	7732-18-5	39.00000	0.00119	
			2-Propenoic acid, polymer with 2-propenamide, sodium salt	25987-30-8	29.00000	0.00088	
			Poly(oxy-1,2-ethanediyl), a-tridecyl-w-hydroxy-, branched	69011-36-5	3.00000	0.00009	
			Sorbitan Monooleate	1338-43-8	2.00000	0.00006	
			Acrylamide(as residual)	79-06-1	0.10000	0.00000	
KemFlow XFR3001	Kemira Chemicals, Inc.	Friction Reducers					
			Distillates (petroleum), hydrotreated light	64742-47-8	23.50000	0.00235	
			Ammonium Chloride	12125-02-9	1.50000	0.00015	
FR-630	SNF Inc.	Friction Reducers					
			Water	7732-18-5	48.00000	0.00065	
			Distillates(petroleum), hydrotreated light	64742-47-8	30.00000	0.00041	
			2-Propenoic acid polymer with acrylamide, sodium salt	25987-30-8	30.00000	0.00041	
			Buffering agents	Proprietary	22.00000	0.00030	
			Proprietary surfactant package	Proprietary	5.00000	0.00007	
			Alcohols, C12-16, ethoxylated	68551-12-2	5.00000	0.00007	
			Acrylamide(as residual)	79-06-1	0.10000	0.00000	
Total 4	Ace Fluid Solutions	Acid Corrosion Inhibitors					
			Ethylene Glycol	107-21-1	70.00000	0.00030	
			DPM	34590-94-8	25.00000	0.00011	
			Acetic Acid	64-19-7	20.00000	0.00009	
			Water	7732-18-5	15.00000	0.00006	
			Citric Acid	77-92-9	10.00000	0.00004	
			Amine Sulfonate	26836-07-7	5.00000	0.00002	
			Alcohol Ethoxylate	9003-11-6	5.00000	0.00002	
			I-123	Proprietary	5.00000	0.00002	

Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.

* 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%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)