

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	8/1/2022
Job End Date:	9/3/2022
State:	Texas
County:	Winkler
API Number:	42-495-34698-00-00
Operator Name:	Percussion Petroleum II, LLC
Well Name and Number:	UL YELLOWTAIL H 21-29-17 WB 8H
Latitude:	31.71108400
Longitude:	-103.24383400
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	12,207
Total Base Water Volume (gal):	23,954,028
Total Base Non Water Volume:	



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	Pilot	Carrier/Base Fluid					
			Freshwater	7732-18-5		90.36658	
Chemical 2	Guide	Friction Reduction/ Increase Viscosity					

				Listed Below			
Sand (Proppant)	Capitol	Proppant					
				Listed Below			
Chemical 3	Guide	Scale Inhibitor					
				Listed Below			
Chemical 1	Guide	Friction Reduction					
				Listed Below			
Chemical 4	Guide	Biocide					
				Listed Below			
Hydrochloric Acid (15%)	Velox	Acidizing					
				Listed Below			
Items above are Trade Names with the exception of Base Water . Items below are the individual ingredients.							
			Hydrochloric acid	7647-01-0	15.00000	0.02732	
			Ethylene glycol	107-21-1	30.00000	0.00159	
			Alkyl (C12-16) dimethylbenzylammonium chloride	68424-85-1	5.00000	0.00030	
			Glutaraldehyde	111-30-8	5.00000	0.00030	
			Trade Secret	Proprietary	5.00000	0.00026	
			Acrylic acid acrylamide polymer sodium salt	Proprietary	30.00000		
			Mineral Oil	Proprietary	100.00000		
			Distillate, petroleum, hydrotreated, light	64742-47-8	30.00000		

* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

*** If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

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)