

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	7/7/2021
Job End Date:	7/31/2021
State:	Texas
County:	Reagan
API Number:	42-383-40686-00-00
Operator Name:	FDL Operating, LLC
Well Name and Number:	University 10 35-23 27HA
Latitude:	31.25609700
Longitude:	-101.54460200
Datum:	WGS84
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	9,000
Total Base Water Volume (gal):	20,112,685
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
AI-150	Rock Water	Corrosion Inhibitor					
				Listed Below			
STIMFE-100	Rock Water	Iron Control					
				Listed Below			

Hydrochloric Acid (15%)	Straitline Pumps	Acidizing					
				Listed Below			
Items above are Trade Names with the exception of Base Water . Items below are the individual ingredients.							
			Water	7732-18-5	100.00000	87.72483	
			Crystalline silica	14808-60-7	100.00000	12.05990	
			Anhydrous hydrochloric acid	7647-01-0	15.00000	0.03214	
			Carboxylic Acid	531-81-7	25.00000	0.00019	
			Metanol	67-56-1	60.00000	0.00016	

* 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)