

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	1/10/2020
Job End Date:	1/31/2020
State:	Texas
County:	Ward
API Number:	42-475-37844-00-00
Operator Name:	Parsley Energy Operations, LLC
Well Name and Number:	UTL 2635-17 11H
Latitude:	31.59277718
Longitude:	-103.18626287
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	11,147
Total Base Water Volume (gal):	14,852,376
Total Base Non Water Volume:	0



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	Carrier/Base Fluid	Water	7732-18-5	100.00000	88.44572	None
Sand (100 Mesh Proppant)	ProFrac	Proppant	Crystalline Silica (quartz)	14808-60-7	100.00000	7.84320	None
Sand (40/70 White Proppant)	ProFrac	Proppant	Crystalline Silica (quartz)	14808-60-7	100.00000	3.35233	None
HCR 7000	Fluid Energy Group	Acidizing	Water	7732-18-5	85.00000	0.15693	None
			Hydrochloric Acid	7647-01-0	36.00000	0.06647	None
ProSlick 300	ProFrac	Friction Reducer	Petroleum distillates	64742-47-8	22.00000	0.01276	None
			Ammonium chloride	12125-02-9	11.00000	0.00638	None
			Ethoxylated alcohol	84133-50-6	10.00000	0.00580	None
			Ethoxylated alcohol	68439-50-9	1.50000	0.00087	None
			Ethoxylated alcohol	68551-12-2	1.50000	0.00087	None
			Ethoxylated alcohol	68002-97-1	1.50000	0.00087	None

LFS 904	Lightning Fluid Services	Surfactant					
			Aliphatic Aryl Acid	Proprietary	10.00000	0.00834	None
10% DDAC	ProFrac	Biocide					
			Didecyldimethylammonium Chloride	7173-51-5	11.50000	0.00341	None
			Ethanol	64-17-5	2.00000	0.00059	None
ProBreak 100	ProFrac	Oxidizer					
			Ammonium Persulfate	7727-54-0	98.00000	0.00298	None
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.							
Other Chemical(s)	Listed Above	See Trade Name(s) List					
			Water	7732-18-5	85.00000	0.15693	
			Ammonium chloride	12125-02-9	11.00000	0.00638	
			Ethoxylated alcohol	84133-50-6	10.00000	0.00580	
			Ethoxylated alcohol	68551-12-2	1.50000	0.00087	
			Ethoxylated alcohol	68439-50-9	1.50000	0.00087	
			Ethoxylated alcohol	68002-97-1	1.50000	0.00087	
			Ethanol	64-17-5	2.00000	0.00059	

* 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)