

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	10/16/2017
Job End Date:	10/29/2017
State:	Texas
County:	Andrews
API Number:	42-003-47534-00-00
Operator Name:	Elevation Resources, LLC
Well Name and Number:	ULG 1-20 #6H
Latitude:	32.21471900
Longitude:	-102.52227600
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	10,590
Total Base Water Volume (gal):	15,519,294
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
Fresh Water	Elevation Resources	Carrier / Base Fluid	Water	7732-18-5	100.00000	87.12982	
100 mesh White Sand, Area 1	Universal Pressure Pumping, Inc.	PROPPANT	Silica, Quartz, SiO2	14808-60-7	100.00000	11.77172	
15% HCl Acid, Area 1	Universal Pressure Pumping, Inc.	HYDROCHLORIC ACID (Uninhibited)	Water	7732-18-5	74.00000	0.73567	
			Hydrogen Chloride	7647-01-0	37.00000	0.36784	
WFR-4	Universal Pressure Pumping, Inc.	FRICTION REDUCERS	Isoparaffinic Solvent	64742-47-8	45.00000	0.02078	
			Water	7732-18-5	35.00000	0.01616	
			Copolymer of acrylamide and sodium acrylate	25987-30-8	34.00000	0.01570	
			Surfactant blend	00-00-0	6.00000	0.00277	
S-376	Universal Pressure Pumping, Inc.	SURFACTANTS	Water	7732-18-5	75.00000	0.03203	
			Proprietary	00-00-0	15.00000	0.00641	

			Ethylene oxide/propylene oxide co-polymer	9003-11-6	10.00000	0.00427	
			Coconut diethanolamide	68603-42-9	8.00000	0.00342	
			Isotridecanol, ethoxylated	9043-30-5	5.00000	0.00214	
			Alcohol	68609-68-7	5.00000	0.00214	
			Poly(oxy-1,2-ethanediyl), alpha hexyl –omega-hydroxy-	31726-34-8	5.00000	0.00214	
			Solvent Naphtha (Petroleum), Heavy	64742-94-5	1.00000	0.00043	
			Aromatic	111-42-2	1.00000	0.00043	
B-4	Universal Pressure Pumping, Inc.	BREAKERS AND BREAKER CATALYSTS					
			Ammonium Persulfate	7727-54-0	98.00000	0.00872	
I-2L	Universal Pressure Pumping, Inc.	IRON CONTROL ADDITIVES					
			ACETIC ACID	64-19-7	82.00000	0.00404	
			Water	7732-18-5	20.00000	0.00099	
CIA - 5	Universal Pressure Pumping, Inc.	ACID CORROSION INHIBITORS					
			Methyl Alcohol	67-56-1	40.00000	0.00064	
			PROPARGYL ALCOHOL	107-19-7	8.00000	0.00013	

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)