

# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	1/31/2017
Job End Date:	2/6/2017
State:	Texas
County:	Andrews
API Number:	42-003-47423-00-00
Operator Name:	Elevation Resources, LLC
Well Name and Number:	University 1-27 South Unit #3H
Latitude:	32.16469949
Longitude:	-102.50872039
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	10,500
Total Base Water Volume (gal):	5,885,166
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	89.05754	
30-50 mesh White Sand, Area 1	Universal Pressure Pumping, Inc.	PROPPANT	Silica, Quartz, SiO2	14808-60-7	100.00000	5.18568	
15% HCl Acid, Area 1	Universal Pressure Pumping, Inc.	HYDROCHLORIC ACID (Uninhibited)	Water	7732-18-5	74.00000	1.42672	
			Hydrogen Chloride	7647-01-0	37.00000	0.71336	
Preferred RCS	Universal Pressure Pumping, Inc.	Resin Coated Proppants	QUARTZ (SiO2) (CRYSTALLINE SILICA)	14808-60-7	98.00000	1.61883	
			POLYURETHANE RESIN	00-00-0	5.00000	0.08259	
			COLORANT	00-00-0	1.00000	0.01652	
100 mesh White Sand, Area 1	Universal Pressure Pumping, Inc.	PROPPANT	Silica, Quartz, SiO2	14808-60-7	100.00000	1.67773	
WGA-1A SLR	Universal Pressure Pumping, Inc.	GELLING AGENTS FOR WATER	Petroleum Distillates	64742-47-8	60.00000	0.11826	

			Polysaccharide blend	00-00-0	60.00000	0.11826	
WFR-4	Universal Pressure Pumping, Inc.	FRICTION REDUCERS					
			Isoparaffinic Solvent	64742-47-8	45.00000	0.04191	
			Water	7732-18-5	35.00000	0.03260	
			Copolymer of acrylamide and sodium acrylate	25987-30-8	34.00000	0.03167	
			Surfactant blend	00-00-0	6.00000	0.00559	
NE-1	Universal Pressure Pumping, Inc.	NON-EMULSIFIER AND DE-EMULSIFIERS					
			Water	7732-18-5	66.00000	0.05579	
			Methyl Alcohol	67-56-1	15.00000	0.01268	
			Ethylene Glycol Monobutyl Ether	111-76-2	15.00000	0.01268	
			Cocamide Diethanolamine Salt	68603-42-9	10.00000	0.00845	
			Diethanolamine	111-42-2	5.00000	0.00423	
CX-9	Universal Pressure Pumping, Inc.	CROSSLINKERS AND DELAYERS					
			Water	7732-18-5	75.00000	0.04304	
			Potassium Metaborate	13709-94-9	30.00000	0.01722	
			Ethylene Glycol	107-21-1	10.00000	0.00574	
			Potassium Hydroxide	1310-58-3	5.00000	0.00287	
I-2L	Universal Pressure Pumping, Inc.	IRON CONTROL ADDITIVES					
			ACETIC ACID	64-19-7	82.00000	0.00755	
			Water	7732-18-5	20.00000	0.00184	
KBW-507	Kel-Tech, Inc.	Biocide					
			Glutaraldehyde	111-30-8	30.00000	0.00734	
CIA - 5	Universal Pressure Pumping, Inc.	ACID CORROSION INHIBITORS					
			Methyl Alcohol	67-56-1	40.00000	0.00289	
			PROPARGYL ALCOHOL	107-19-7	8.00000	0.00058	
KSIW-625N	Kel-Tech, Inc.	Scale Inhibitor					
			Methanol	67-56-1	15.00000	0.00343	
B-5E	Universal Pressure Pumping, Inc.	BREAKERS AND BREAKER CATALYSTS					
			Ammonium Persulfate	7727-54-0	60.00000	0.00196	
			Cured Acrylic Resin	00-00-0	25.00000	0.00082	
			Silica, Crystalline - Quartz	14808-60-7	16.00000	0.00052	

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)

