Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	5/22/2017
Job End Date:	6/3/2017
State:	Texas
County:	Andrews
API Number:	42-003-47478-00-00
Operator Name:	Elevation Resources, LLC
Well Name and Number:	ULG 9-46 #2H
Latitude:	32.14786100
Longitude:	-102.55964000
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	10,440
Total Base Water Volume (gal):	19,432,812
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 Resoiurces	Carrier / Base Fluid					
			Water	7732-18-5	100.00000	89.49870	
40-70 mesh White Sand, Area 1	Universal Pressure Pumping, Inc.	PROPPANT					
			Silica, Quartz, SiO2	14808-60-7	100.00000	5.72617	
100 mesh White Sand, Area 1	Universal Pressure Pumping, Inc.	PROPPANT					
			Silica, Quartz, SiO2	14808-60-7	100.00000	1.99058	
Hexion Black Ultra Resin Coated 40/70 mesh	Universal Pressure Pumping, Inc.	Resin Coated Proppants					
			Quartz (SiO2)	14808-60-7	100.00000	1.55463	
15% HCl Acid, Area 1	Universal Pressure Pumping, Inc.	HYDROCHLORIC ACID (Uninhibited)					
			Water	7732-18-5	74.00000	0.67758	
			Hydrogen Chloride	7647-01-0	37.00000	0.33879	
S-376	Universal Pressure Pumping, Inc.	SURFACTANTS					
			Water	7732-18-5	75.00000	0.03290	
			Proprietary	00-00-0	15.00000	0.00658	

			Ethylene oxide/propylene oxide co-polymer	9003-11-6	10.00000	0.00439	
			Coconut diethanolamide	68603-42-9	8.00000	0.00351	
			Poly(oxy-1,2-ethanediyl), alpha hexyl –omega-hydroxy-	31726-34-8	5.00000	0.00219	
			Isotridecanol, ethoxylated	9043-30-5	5.00000	0.00219	
			Alcohol	68609-68-7	5.00000	0.00219	
			Aromatic	111-42-2	1.00000	0.00044	
			Solvent Naphtha (Petroleum), Heavy	64742-94-5	1.00000	0.00044	
Hiflow 5	DCS	Friction Reducer					
			Petroleum Distillate Hydrotreated light	64742-47-8	28.00000	0.04259	
WFR-4	Universal Pressure Pumping, Inc.	FRICTION REDUCERS					
			Isoparaffinic Solvent	64742-47-8	45.00000	0.00650	
			Water	7732-18-5	35.00000	0.00506	
			Copolymer of acrylamide and sodium acrylate	25987-30-8	34.00000	0.00491	
			Surfactant blend	00-00-0	6.00000	0.00087	
POLYREAK 5	DCS	BREAKER					
			Hydrogen Peroxide	7722-84-1	20.00000	0.00976	
KBW-512M	Kel-Teck	Biocide					
			Glutaraldehyde	111-30-8	15.00000	0.00369	
			Didecyl dimethyl benzyl ammonium chloride	7173-51-5	5.00000	0.00123	
			Alkyl dimethyl benzyl ammonium chloride	68424-85-1	5.00000	0.00123	
KSIW-625N	Kel-Tech	Scale Inhibitor					
			Diethylene Glycol	111-46-6	10.00000	0.00240	
			Methanol	67-56-1	10.00000	0.00240	
			Ammonium	12125-02-9	5.00000	0.00120	
I-2L	Universal Pressure Pumping, Inc.	IRON CONTROL ADDITIVES					
			ACETIC ACID	64-19-7	82.00000	0.00376	
			Water	7732-18-5	20.00000	0.00092	
CIA - 5	Universal Pressure Pumping, Inc.	ACID CORROSION INHIBITORS					
			Methyl Alcohol	67-56-1	40.00000	0.00060	
			PROPARGYL ALCOHOL	107-19-7	8.00000	0.00012	
B-4	Universal Pressure Pumping, Inc.	BREAKERS AND BREAKER CATALYSTS					
			Ammonium Persulfate	7727-54-0	98.00000	0.00036	

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)