

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	11/6/2014
Job End Date:	11/8/2014
State:	Oklahoma
County:	Alfalfa
API Number:	35-003-23012-00-00
Operator Name:	SandRidge Energy
Well Name and Number:	Burleson 2611 2-19H
Longitude:	-98.41832693
Latitude:	36.72401046
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	5,713
Total Base Water Volume (gal):	3,114,846
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	Archer	Carrier/Base Fluid					
			Water	7732-18-5	100.00000	94.67576	None
Sand (Proppant)	Archer	Proppant					
			Silica Substrate	NA	100.00000	4.51194	None
Hydrochloric Acid (15%)	Archer	Acidizing					
			Hydrochloric Acid	7647-01-0	15.00000	0.10973	None
			Methyl Alcohol	67-56-1	80.00000	0.00091	None
			thiourea-formaldehyde copolymer	68527-49-1	15.00000	0.00017	None
			NONYL PHENOL, 4 MOL	104-40-5	10.00000	0.00007	None
AIC	Archer	Liquid Acid Iron Control					
			Acetic Acid	64-19-7	50.00000	0.00203	None
			Citric Acid	77-92-9	30.00000	0.00122	None
DiKlor	Sabre Energy Services	Oxidizer					
			Chlorine Dioxide	10069-04-4	0.40000	0.00038	
			Water	7732-18-5	99.90000	0.00025	
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 Chemicals					
			Water	7732-18-5		0.03907	

		Anionic Polymer	N/A		0.01953	
		Aliphatic Hydrocarbon	64742-47-8		0.01953	
		Water	7732-18-5		0.00878	
		Polyol Ester	N/A		0.00326	
		Oxyalkylated Alcohol	68002-97-1		0.00326	
		Sodium Salt of Phosphate Ester	68131-72-6		0.00146	
		Acrylic Polymer	28205-96-1		0.00146	
		Water	7732-18-5		0.00142	
		Polyglycol Ester	N/A		0.00065	
		WATER	7732-18-5		0.00041	
		TRADE SECRET	N/A		0.00027	
		Alcohol Ethoxylate Surfactants	N/A		0.00017	
		n-olefins	N/A		0.00009	
		ISOPROPANOL	67-63-0		0.00007	
		METHANOL	67-56-1		0.00007	
		Propargyl Alcohol	107-19-7		0.00007	
		Tetrasodium Ethylenediaminetetraacetate	64-02-8		0.00007	
		Cinnamic Aldehyde	104-55-2			
		Buffer	N/A			
		Acetic Acid	64-19-7			
		Water	7732-18-5			
		Surfactant	N/A			

* 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)