Hydraulic Fracturing Fluid Product Component Information Disclosure

12/17/2012	Fracture Date
Texas	State:
Parker	County:
42-367-35330	API Number:
Devon-OKC	Operator Name:
Skiles 2H	Well Name and Number:
-97.783548	Longitude:
32.680173	Latitude:
NAD27	Long/Lat Projection:
Gas	Production Type:
6,108	True Vertical Depth (TVD):
3247978 (gal)	Total Water Volume* (gal):

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
Devon	Carrier / Base Fluid	Carrier / Base Fluid - Water			100.00%	94.91046%	
WFT	Proppant	Crystalline Silica in the form of Quartz	14808-60-7	14808-60-7	100.00%	1.88842%	
WFT	Proppant	Crystalline Silica in the form of Quartz	14808-60-7	14808-60-7	100.00%	2.52870%	
WFT	Proppant	Crystalline Silica in the form of Quartz	14808-60-7	14808-60-7	100.00%	0.41913%	
WFT	Friction Reducers	No ingredients as hazardous according to OSHA 29	CFR 1910.1200		0.00%	0.00000%	
WFT	Gelling Agents	Petroleum Distillates	64742-47-8	64742-47-8	60.00%	0.00000%	
WFT	Misc. Chemicals	Aniline	62-53-3	62-53-3	1.00%	0.00053%	
		Ethylene Glycol	107-21-1	107-21-1	40.00%	0.02107%	
		Methanol	67-56-1	67-56-1	30.00%	0.01580%	
		Phosphate Ester	Proprietary	Proprietary	15.00%	0.00790%	
Chlorine Dioxide (Calculated)	Baker Hughes	Biocide	Sodium Chlorite	7758-19-2	25.00%	54.625000	
Scaletrol 5277, 55 gl drum	Baker Hughes	Scale Inhibitor	Phosphonate Salt	Trade Secret	5.00%	74.555297	
		Quaternized Alkyl Nitrogenated Compd	Proprietary	Proprietary	60.00%	0.03161%	
WFT	Acid	Hydrochloric Acid	7647-01-1	7647-01-1	28.00%	0.04235%	
Ingredients shown al	oove are subject to 2	29 CFR 1910.1200(i) and appear on Material Safety D	, , ,				
			2-Butoxyethanol	111-76-2		0.00000%	
			Alcohol Ethoxylate	Mixture		0.00000%	
			Alcohols, C12-16, Ethoxylated	68551-12-2		0.00000%	
			Anionic water soluble polymer	Mixture		0.01481%	

	Arlacel 83	8007-43-0	0.00000%			
	Crystalline Silica in the form of Quartz	14808-60-7	0.00000%			
	Guar gum	9000-30-0	0.00000%			
	Proprietary Ingredient	Proprietary	0.03949%			
	Ammonium Sulfate	7783-20-2	0.0001070			
	Modified Carboxylic Acid Polymer Salt	Trade Secret				
	Potassium Hydroxide	1310-58-3				
	Sodium Bisulfite	7631-90-5				
	Sodium Chlorate	7775-09-9	0.109250			
	Sodium Chloride	7647-14-5	0.103230			
	Sodium Hydroxide	95077-05-7	1.092500			
	Sodium Sulfate	7757-82-6	1.032300			
	Water	7732-18-5	162.891750			
	water	1132-10-5	102.091730			
**For some of the constituents listed above, the data submitted by Weatherford is	provided in good faith reliance on the representations	of Weatherford's vendors/s	suppliers.			

^{*}Total Water Volume sources may include fresh water, produced water, and/or recycled water

Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

^{**} Information is based on the maximum potential for concentration and thus the total may be over 100%