

Hydraulic Fracturing Fluid Product Component Information Disclosure

Last Fracture Date	03/09/2012
State:	California
County:	Kern
API Number:	04-030-46388
Operator Name:	Vintage Prod Of Cal
Well Name and Number:	Blaze 5H
Longitude:	-119.27913
Latitude:	35.55061
Long/Lat Projection:	NAD27
Production Type:	Oil
True Vertical Depth (TVD):	7,940
Total Water Volume (gal)*:	651,000

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	Operator	Carrier	Water	7732-18-5	100.00%	83.85559%	
Alpha 125, 263 gl tote	Baker Hughes	Biocide	Glutaraldehyde	111-30-8	30.00%	0.00294%	SmartCare Product
Enzyme G-I	Baker Hughes	Breaker	Hemicellulase Enzyme Concentrate	9025-56-3	3.00%	0.00226%	SmartCare Product
			Water	7732-18-5	97.00%	0.07297%	
BC-3	Baker Hughes	Breaker Catalyst	No Hazardous Ingredients	Trade Secret	100.00%	0.00788%	
BF-7L, Tote	Baker Hughes	Buffer	Potassium Carbonate	584-08-7	60.00%	0.13582%	SmartCare Product
			Potassium Hydroxide	1310-58-3	1.00%	0.00226%	
			Water	7732-18-5	60.00%	0.13582%	
XLW-56, 330 gal tote	Baker Hughes	Crosslinker	D-Glucitol	50-70-4	10.00%	0.01204%	
			Glyoxal	107-22-2	30.00%	0.03611%	
			Sodium Hydroxide	1310-73-2	5.00%	0.00602%	
			Sodium Tetraborate	1330-43-4	10.00%	0.01204%	
GLFC-1B	Baker Hughes	Gelling Agent	Alkanes / Alkenes	Multiple	45.00%	0.14557%	
			Guar Gum	9000-30-0	50.00%	0.16174%	
Sand, White, 20/40	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100.00%	12.50795%	
Sand, White, 100 mesh	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100.00%	0.41712%	

