

# Hydraulic Fracturing Fluid Product Component Information Disclosure: Maximum Ingredient Weight in Pounds Format



**BAKER  
HUGHES**

	10/01/2012
Last Fracture Date	
State:	California
County:	Kern
API Number:	04-030-48036
Operator Name:	Aera Energy Llc
Well Name and Number:	918B1-28
Longitude:	-119.7250156
Latitude:	35.4562041
Long/Lat Projection:	NAD83
Production Type:	Oil
True Vertical Depth (TVD):	1,400
Total Chemical Mass (lbs)*:	552,223
Total Max. Ingredient Mass (lbs)*:	552,464
Total Product Volume (gal)*:	54,911
Total Water Volume (gal)*:	47,796

## Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Weight in HF Fluid (lbs mass)	Comments
Water	Operator	Carrier	Water	7732-18-5	100.00%	398,513	
X-Cide 207	Baker Hughes	Biocide	2-Methyl-4-Isothiazolin-3-One	2682-20-4	5.00%	0.900000	
			5-Chloro-2-Methyl-4-Isothiazolin-3-One	26172-55-4	10.00%	1.800000	
			Crystalline Silica: Cristobalite	14464-46-1	1.00%	0.180000	
			Crystalline Silica: Quartz (SiO2)	14808-60-7	1.00%	0.180000	
			Diatomaceous Earth, Calcined	91053-39-3	60.00%	10.800000	
			Magnesium Chloride	7786-30-3	5.00%	0.900000	

			Magnesium Nitrate	10377-60-3	10.00%	1.800000	
Enzyme G-I	Baker Hughes	Breaker	Hemicellulase Enzyme Concentrate	9025-56-3	3.00%	6.503484	SmartCare Product
			Water	7732-18-5	97.00%	210.279316	
Clay Master-5C (Tote)	Baker Hughes	Clay Control	Oxyakylated Amine Quat	138879-94-4	60.00%	318.731760	
XLW-10A	Baker Hughes	Crosslinker	Ethylene Glycol	107-21-1	30.00%	176.400000	SmartCare Product
			Sodium Hydroxide	1310-73-2	10.00%	58.800000	
			Sodium Tetraborate	1330-43-4	30.00%	176.400000	
GW-3LDF	Baker Hughes	Gelling Agent	1-Butoxy-2-Propanol	5131-66-8	5.00%	67.468500	SmartCare Product
			Cyrstalline Silica, Quartz (SiO2)	14808-60-7	5.00%	67.468500	
			Guar Gum	9000-30-0	60.00%	809.622000	
			Isotridecanol, ethoxylated	9043-30-5	5.00%	67.468500	
			Paraffinic Petroleum Distillate	64742-55-8	30.00%	404.811000	
			Petroleum Distillates	64742-47-8	30.00%	404.811000	
Sand, White, 20/40	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100.00%	150,880.000000	
ScaleSorb 3, (25# pail)	Baker Hughes	Scale Inhibitor	Amino Alkyl Phosphonic Acid	Trade Secret	30.00%	37.800000	SmartCare Product
			Crystalline Silica: Quartz (SiO2)	14808-60-7	1.00%	1.260000	
			Diatomaceous Earth, Calcined	91053-39-3	100.00%	126.000000	
			Phosphonic Acid	13598-36-2	1.00%	1.260000	
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.							
			2-Butoxy-1-Propanol	15821-83-7		1.079496	
			Water	7732-18-5		117.600000	