

## Hydraulic Fracturing Fluid Product Component Information Disclosure

Last Fracture Date	11/15/2012
State:	California
County:	Kern
API Number:	04-030-48595
Operator Name:	Aera Energy Llc
Well Name and Number:	Belridge I 7245F-2
Longitude:	-119.6922944
Latitude:	35.4358993
Long/Lat Projection:	NAD83
Production Type:	Oil
True Vertical Depth (TVD):	1,851
Total Water Volume (gal)*:	80,388

### 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%	76.44738%	
GBW-5	Baker Hughes	Breaker	Ammonium Phosphate	7727-54-0	100.00%	0.00342%	SmartCare Product
Enzyme G-I	Baker Hughes	Breaker	Hemicellulase Enzyme Concentrate	9025-56-3	3.00%	0.00137%	SmartCare Product
			Water	7732-18-5	97.00%	0.04428%	
Clay Master-5C (Tote)	Baker Hughes	Clay Control	Oxyakylated Amine Quat	138879-94-4	60.00%	0.02222%	
XLW-10A	Baker Hughes	Crosslinker	Ethylene Glycol	107-21-1	30.00%	0.03198%	SmartCare Product
			Sodium Hydroxide	1310-73-2	10.00%	0.01066%	
			Sodium Tetraborate	1330-43-4	30.00%	0.03198%	
GW-3LDF	Baker Hughes	Gelling Agent	1-Butoxy-2-Propanol	5131-66-8	5.00%	0.01304%	SmartCare Product
			Cyrstalline Silica, Quartz (SiO2)	14808-60-7	5.00%	0.01304%	
			Guar Gum	9000-30-0	60.00%	0.15652%	
			Isotridecanol, ethoxylated	9043-30-5	5.00%	0.01304%	
			Paraffinic Petroleum Distillate	64742-55-8	30.00%	0.07826%	
			Petroleum Distillates	64742-47-8	30.00%	0.07826%	
Sand, White, 20/40	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100.00%	23.00291%	
ScaleSorb 3, (25# pail)	Baker Hughes	Scale Inhibitor	Amino Alkyl Phosphonic Acid	Trade Secret	30.00%	0.00684%	SmartCare Product
			Crystalline Silica: Quartz (SiO2)	14808-60-7	1.00%	0.00023%	

