

## Hydraulic Fracturing Fluid Product Component Information Disclosure

<b>Last Fracture Date</b>	<b>11/14/2012</b>
<b>State:</b>	<b>California</b>
<b>County:</b>	<b>Kern</b>
<b>API Number:</b>	<b>04-030-48591</b>
<b>Operator Name:</b>	<b>Aera Energy Llc</b>
<b>Well Name and Number:</b>	<b>Belridge I 7171F-2</b>
<b>Longitude:</b>	<b>-119.6930436</b>
<b>Latitude:</b>	<b>35.4369026</b>
<b>Long/Lat Projection:</b>	<b>NAD83</b>
<b>Production Type:</b>	<b>Oil</b>
<b>True Vertical Depth (TVD):</b>	<b>1,791</b>
<b>Total Water Volume (gal)*:</b>	<b>83,370</b>

### 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%	77.07816%	
GBW-5	Baker Hughes	Breaker	Ammonium Phosphate	7727-54-0	100.00%	0.00333%	SmartCare Product
Enzyme G-I	Baker Hughes	Breaker	Hemicellulase Enzyme Concentrate	9025-56-3	3.00%	0.00130%	SmartCare Product
			Water	7732-18-5	97.00%	0.04215%	
Clay Master-5C (Tote)	Baker Hughes	Clay Control	Oxyakylated Amine Quat	138879-94-4	60.00%	0.05759%	
XLW-10A	Baker Hughes	Crosslinker	Ethylene Glycol	107-21-1	30.00%	0.03178%	SmartCare Product
			Sodium Hydroxide	1310-73-2	10.00%	0.01059%	
			Sodium Tetraborate	1330-43-4	30.00%	0.03178%	
GW-3LDF	Baker Hughes	Gelling Agent	1-Butoxy-2-Propanol	5131-66-8	5.00%	0.01220%	SmartCare Product
			Cyrstalline Silica, Quartz (SiO2)	14808-60-7	5.00%	0.01220%	
			Guar Gum	9000-30-0	60.00%	0.14644%	
			Isotridecanol, ethoxylated	9043-30-5	5.00%	0.01220%	
			Paraffinic Petroleum Distillate	64742-55-8	30.00%	0.07322%	
			Petroleum Distillates	64742-47-8	30.00%	0.07322%	
Sand, White, 20/40	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100.00%	22.36315%	
ScaleSorb 3, (25# pail)	Baker Hughes	Scale Inhibitor	Amino Alkyl Phosphonic Acid	Trade Secret	30.00%	0.00665%	SmartCare Product
			Crystalline Silica: Quartz (SiO2)	14808-60-7	1.00%	0.00022%	

