## Hydraulic Fracturing Fluid Product Component Information Disclosure

| Last Fracture Date         | 12/13/2012         |
|----------------------------|--------------------|
| State:                     | California         |
| County:                    | Kern               |
| API Number:                | 04-030-48641       |
| Operator Name:             | Aera Energy Llc    |
| Well Name and Number:      | Belridge I 7285E-2 |
| Longitude:                 | -119.6847525       |
| Latitude:                  | 35.4344516         |
| Long/Lat Projection:       | NAD83              |
| Production Type:           | Oil                |
| True Vertical Depth (TVD): | 2,001              |
| Total Water Volume (gal)*: | 83,706             |

## Hydraulic Fracturing Fluid Composition:

| Trade Name              | Supplier     | Purpose         | Ingredients                            | Chemical<br>Abstract<br>Service<br>Number<br>(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%  | 76.88097%  |                   |
| X-Cide 207              | Baker Hughes | Biocide         | 2-Methyl-4-Isothiazolin-3-One          | 2682-20-4  | 5.00%  | 0.00020%   |                   |
|                         |              |                 | 5-Chloro-2-Methyl-4-Isothiazolin-3-One | 26172-55-4   | 10.00%   | 0.00040%   |                   |
|                         |              |                 | Crystalline Silica: Cristobalite       | 14464-46-1   | 1.00%  | 0.00004%   |                   |
|                         |              |                 | Crystalline Silica: Quartz (SiO2)      | 14808-60-7   | 1.00%  | 0.00004%   |                   |
|                         |              |                 | Diatomaceous Earth, Calcined           | 91053-39-3   | 60.00%   | 0.00238%   |                   |
|                         |              |                 | Magnesium Chloride                     | 7786-30-3  | 5.00%  | 0.00020%   |                   |
|                         |              |                 | Magnesium Nitrate                      | 10377-60-3   | 10.00%   | 0.00040%   |                   |
| GBW-5                   | Baker Hughes | Breaker         | Ammonium Phosphate                     | 7727-54-0  | 100.00%  | 0.00551%   | SmartCare Product |
| Enzyme G-I              | Baker Hughes | Breaker         | Hemicellulase Enzyme Concentrate       | 9025-56-3  | 3.00%  | 0.00135%   | SmartCare Product |
|                         |              |                 | Water                                  | 7732-18-5  | 97.00%   | 0.04365%   |                   |
| Clay Master-5C (Tote)   | Baker Hughes | Clay Control    | Oxyakylated Amine Quat                 | 138879-94-4  | 60.00%   | 0.05722%   |                   |
| XLW-10A                 | Baker Hughes | Crosslinker     | Ethylene Glycol                        | 107-21-1   | 30.00%   | 0.02637%   | SmartCare Product |
|                         |              |                 | Sodium Hydroxide                       | 1310-73-2  | 10.00%   | 0.00879%   |                   |
|                         |              |                 | Sodium Tetraborate                     | 1330-43-4  | 30.00%   | 0.02637%   |                   |
| GW-3LDF                 | Baker Hughes | Gelling Agent   | 1-Butoxy-2-Propanol                    | 5131-66-8  | 5.00%  | 0.01112%   | SmartCare Product |
|                         |              |                 | Cyrstalline Silica, Quartz (SiO2)      | 14808-60-7   | 5.00%  | 0.01112%   |                   |
|                         |              |                 | Guar Gum                               | 9000-30-0  | 60.00%   | 0.13346%   |                   |
|                         |              |                 | Isotridecanol, ethoxylated             | 9043-30-5  | 5.00%  | 0.01112%   |                   |
|                         |              |                 | Paraffinic Petroleum Distillate        | 64742-55-8   | 30.00%   | 0.06673%   |                   |
|                         |              |                 | Petroleum Distillates                  | 64742-47-8   | 30.00%   | 0.06673%   |                   |
| ScaleSorb 3, (25# pail) | Baker Hughes | Scale Inhibitor | Amino Alkyl Phosphonic Acid            | Trade Secret   | 30.00%   | 0.00694%   | SmartCare Product |
|                         |              |                 | Crystalline Silica: Quartz (SiO2)      | 14808-60-7   | 1.00%  | 0.00023%   |                   |

|  |  | Diatomaceous Earth, Calcined | 91053-39-3 | 100.00% | 0.02313%       |  |  |  |
|--|--|------------------------------|------------|---------|----------------|--|--|--|
|  |  | Phosphonic Acid              | 13598-36-2 | 1.00%   | 0.00023%       |  |  |  |
| 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 |         | 0.0001779488%  |  |  |  |
|  |  | Crystalline Quartz (silica)  | 14808-60-7 |         | 22.5975381283% |  |  |  |
|  |  | Water                        | 7732-18-5  |         | 0.0175810036%  |  |  |  |

<sup>\*</sup> 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)

<sup>\*\*</sup> Information is based on the maximum potential for concentration and thus the total may be over 100%