

## Hydraulic Fracturing Fluid Product Component Information Disclosure

|                            |                 |
|----------------------------|-----------------|
| Last Fracture Date         | 06/07/2012      |
| State:                     | California      |
| County:                    | Kern            |
| API Number:                | 04-030-44761    |
| Operator Name:             | Aera Energy Llc |
| Well Name and Number:      | 952A-29         |
| Longitude:                 | -119.7316855    |
| Latitude:                  | 35.4682167      |
| Long/Lat Projection:       | NAD83           |
| Production Type:           | Oil             |
| True Vertical Depth (TVD): | 1,500           |
| Total Water Volume (gal)*: | 18,732          |

### 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%  | 75.11347%  |                   |
| X-Cide 207            | Baker Hughes | Biocide       | 2-Methyl-4-Isothiazolin-3-One          | 2682-20-4                                | 5.00%  | 0.00014%   |                   |
|                       |              |               | 5-Chloro-2-Methyl-4-Isothiazolin-3-One | 26172-55-4                               | 10.00%   | 0.00029%   |                   |
|                       |              |               | Crystalline Silica: Cristobalite       | 14464-46-1                               | 1.00%  | 0.00003%   |                   |
|                       |              |               | Crystalline Silica: Quartz (SiO2)      | 14808-60-7                               | 1.00%  | 0.00003%   |                   |
|                       |              |               | Diatomaceous Earth, Calcined           | 91053-39-3                               | 60.00%   | 0.00173%   |                   |
|                       |              |               | Magnesium Chloride                     | 7786-30-3                                | 5.00%  | 0.00014%   |                   |
|                       |              |               | Magnesium Nitrate                      | 10377-60-3                               | 10.00%   | 0.00029%   |                   |
| GBW-5                 | Baker Hughes | Breaker       | Ammonium Persulfate                    | 7727-54-0                                | 100.00%  | 0.00481%   | SmartCare Product |
| Enzyme G-I            | Baker Hughes | Breaker       | Hemicellulase Enzyme Concentrate       | 9025-56-3                                | 3.00%  | 0.00156%   | SmartCare Product |
|                       |              |               | Water                                  | 7732-18-5                                | 97.00%   | 0.05056%   |                   |
| Clay Master-5C (Tote) | Baker Hughes | Clay Control  | Oxyakylated Amine Quat                 | 138879-94-4                              | 60.00%   | 0.07097%   |                   |
| XLW-10A               | Baker Hughes | Crosslinker   | Ethylene Glycol                        | 107-21-1                                 | 30.00%   | 0.04696%   | SmartCare Product |
|                       |              |               | Sodium Hydroxide                       | 1310-73-2                                | 10.00%   | 0.01565%   |                   |
|                       |              |               | Sodium Tetraborate                     | 1330-43-4                                | 30.00%   | 0.04696%   |                   |
| GW-3LDF               | Baker Hughes | Gelling Agent | 1-Butoxy-2-Propanol                    | 5131-66-8                                | 5.00%  | 0.02140%   | SmartCare Product |
|                       |              |               | Cyrstalline Silica, Quartz (SiO2)      | 14808-60-7                               | 5.00%  | 0.02140%   |                   |

|  |              |          |                                 |            |         |               |  |
|--|--------------|----------|---------------------------------|------------|---------|---------------|--|
|  |              |          | Guar Gum                        | 9000-30-0  | 60.00%  | 0.25682%      |  |
|  |              |          | Isotridecanol, ethoxylated      | 9043-30-5  | 5.00%   | 0.02140%      |  |
|  |              |          | Paraffinic Petroleum Distillate | 64742-55-8 | 30.00%  | 0.12841%      |  |
|  |              |          | Petroleum Distillates           | 64742-47-8 | 30.00%  | 0.12841%      |  |
| Sand, White, 20/40   | Baker Hughes | Proppant | Crystalline Silica (Quartz)     | 14808-60-7 | 100.00% | 24.03690%     |  |
| 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 |         | 0.0003424263% |  |
|  |              |          | Water                           | 7732-18-5  |         | 0.0313085657% |  |
| * Total Water Volume sources may include fresh water, produced water, and/or recycled water  |              |          |                                 |            |         |               |  |
| ** Information is based on the maximum potential for concentration and thus the total may be over 100%   |              |          |                                 |            |         |               |  |
| Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)  |              |          |                                 |            |         |               |  |