

## Hydraulic Fracturing Fluid Product Component Information Disclosure

|                            |                 |
|----------------------------|-----------------|
| Last Fracture Date         | 02/18/2013      |
| State:                     | California      |
| County:                    | Kern            |
| API Number:                | 04-030-48536    |
| Operator Name:             | Aera Energy Llc |
| Well Name and Number:      | 948RR-34        |
| Longitude:                 | -119.7002225    |
| Latitude:                  | 35.4415474      |
| Long/Lat Projection:       | NAD83           |
| Production Type:           | Oil             |
| True Vertical Depth (TVD): | 1,661           |
| Total Water Volume (gal)*: | 53,424          |

### 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%  | 74.25452%  |                   |
| X-Cide 207            | Baker Hughes | Biocide       | 2-Methyl-4-Isothiazolin-3-One          | 2682-20-4                                | 5.00%  | 0.00010%   |                   |
|                       |              |               | 5-Chloro-2-Methyl-4-Isothiazolin-3-One | 26172-55-4                               | 10.00%   | 0.00020%   |                   |
|                       |              |               | Crystalline Silica: Cristobalite       | 14464-46-1                               | 1.00%  | 0.00002%   |                   |
|                       |              |               | Crystalline Silica: Quartz (SiO2)      | 14808-60-7                               | 1.00%  | 0.00002%   |                   |
|                       |              |               | Diatomaceous Earth, Calcined           | 91053-39-3                               | 60.00%   | 0.00120%   |                   |
|                       |              |               | Magnesium Chloride                     | 7786-30-3                                | 5.00%  | 0.00010%   |                   |
|                       |              |               | Magnesium Nitrate                      | 10377-60-3                               | 10.00%   | 0.00020%   |                   |
| GBW-5                 | Baker Hughes | Breaker       | Ammonium Phosphate                     | 7727-54-0                                | 100.00%  | 0.00833%   | SmartCare Product |
| Enzyme G-I            | Baker Hughes | Breaker       | Hemicellulase Enzyme Concentrate       | 9025-56-3                                | 3.00%  | 0.00171%   | SmartCare Product |
|                       |              |               | Water                                  | 7732-18-5                                | 97.00%   | 0.05528%   |                   |
| Clay Master-5C (Tote) | Baker Hughes | Clay Control  | Oxyakylated Amine Quat                 | 138879-94-4                              | 60.00%   | 0.07084%   |                   |
| XLW-10A               | Baker Hughes | Crosslinker   | Ethylene Glycol                        | 107-21-1                                 | 30.00%   | 0.03518%   | SmartCare Product |
|                       |              |               | Sodium Hydroxide                       | 1310-73-2                                | 10.00%   | 0.01173%   |                   |
|                       |              |               | Sodium Tetraborate                     | 1330-43-4                                | 30.00%   | 0.03518%   |                   |
| GW-3LDF               | Baker Hughes | Gelling Agent | 1-Butoxy-2-Propanol                    | 5131-66-8                                | 5.00%  | 0.01516%   | SmartCare Product |
|                       |              |               | Cyrstalline Silica, Quartz (SiO2)      | 14808-60-7                               | 5.00%  | 0.01516%   |                   |

