

## Hydraulic Fracturing Fluid Product Component Information Disclosure

|                                   |                            |
|-----------------------------------|----------------------------|
| <b>Last Fracture Date</b>         | <b>06/30/2012</b>          |
| <b>State:</b>                     | <b>California</b>          |
| <b>County:</b>                    | <b>Kern</b>                |
| <b>API Number:</b>                | <b>04-030-47677</b>        |
| <b>Operator Name:</b>             | <b>Vintage Prod Of Cal</b> |
| <b>Well Name and Number:</b>      | <b>Sill 5-14H</b>          |
| <b>Longitude:</b>                 | <b>-119.24907</b>          |
| <b>Latitude:</b>                  | <b>35.49761</b>            |
| <b>Long/Lat Projection:</b>       | <b>NAD27</b>               |
| <b>Production Type:</b>           | <b>Oil</b>                 |
| <b>True Vertical Depth (TVD):</b> | <b>7,610</b>               |
| <b>Total Water Volume (gal)*:</b> | <b>494,760</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%  | 73.92716%  |                   |
| Alpha 125            | Baker Hughes | Biocide          | Glutaraldehyde                   | 111-30-8                                 | 30.00%   | 0.00644%   | SmartCare Product |
| Enzyme G-I           | Baker Hughes | Breaker          | Hemicellulase Enzyme Concentrate | 9025-56-3                                | 3.00%  | 0.00623%   | SmartCare Product |
|                      |              |                  | Water                            | 7732-18-5                                | 97.00%   | 0.20146%   |                   |
| High Perm CRB        | Baker Hughes | Breaker          | Ammonium Persulphate             | 7727-54-0                                | 60.00%   | 0.00108%   | SmartCare Product |
|                      |              |                  | Crystalline Silica Quartz        | 14808-60-7                               | 30.00%   | 0.00054%   |                   |
| BC-3                 | Baker Hughes | Breaker Catalyst | No Hazardous Ingredients         | Trade Secret                             | 100.00%  | 0.03709%   |                   |
| BF-7L                | Baker Hughes | Buffer           | Potassium Carbonate              | 584-08-7                                 | 60.00%   | 0.27773%   | SmartCare Product |
|                      |              |                  | Potassium Hydroxide              | 1310-58-3                                | 1.00%  | 0.00463%   |                   |
|                      |              |                  | Water                            | 7732-18-5                                | 60.00%   | 0.27773%   |                   |
| XLW-56, 330 gal tote | Baker Hughes | Crosslinker      | D-Glucitol                       | 50-70-4                                  | 10.00%   | 0.02117%   |                   |
|                      |              |                  | Glyoxal                          | 107-22-2                                 | 30.00%   | 0.06351%   |                   |
|                      |              |                  | Sodium Hydroxide                 | 1310-73-2                                | 5.00%  | 0.01058%   |                   |
|                      |              |                  | Sodium Tetraborate               | 1330-43-4                                | 10.00%   | 0.02117%   |                   |
| GLFC-1B              | Baker Hughes | Gelling Agent    | Alkanes / Alkenes                | Multiple                                 | 45.00%   | 0.06976%   |                   |
|                      |              |                  | Guar Gum                         | 9000-30-0                                | 50.00%   | 0.07751%   |                   |
| GW-4LBF              | Baker        | Gelling Agent    | Guar Gum                         | 9000-30-0                                | 60.00%   | 0.41901%   | SmartCare Product |

|   |              |            |  |              |         |               |                   |
|---|--------------|------------|--|--------------|---------|---------------|-------------------|
|   | Hughes       |            |  |              |         |               |                   |
|   |              |            | Paraffinic Petroleum Distillate  | 64742-55-8   | 60.00%  | 0.41901%      |                   |
|   |              |            | Petroleum Distillate   | 64742-47-8   | 60.00%  | 0.41901%      |                   |
| Sand, White, 20/40  | Baker Hughes | Proppant   | Crystalline Silica (Quartz)  | 14808-60-7   | 100.00% | 18.48748%     |                   |
| Sand, White, 100 mesh   | Baker Hughes | Proppant   | Crystalline Silica (Quartz)  | 14808-60-7   | 100.00% | 0.37634%      |                   |
| Super LC, 20/40   | Baker Hughes | Proppant   | Hexamethylenetetramine   | 1009-7-0     | 0.01%   | 0.00044%      |                   |
|   |              |            | P/F Resin  | 9003-35-4    | 5.00%   | 0.22184%      |                   |
|   |              |            | Silicon Dioxide (Silica Sand)  | 14808-60-7   | 97.00%  | 4.30373%      |                   |
| GasFlo G, 330 gal tote  | Baker Hughes | Surfactant | Methanol   | 67-56-1      | 30.00%  | 0.04837%      | SmartCare Product |
|   |              |            | Mixture of Surfactants   | Trade Secret | 60.00%  | 0.09674%      |                   |
|   |              |            | Water  | 7732-18-5    | 50.00%  | 0.08062%      |                   |
| <b>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.</b>   |              |            |  |              |         |               |                   |
|   |              |            | Acetyl Triethyl Citrate  | 77-89-4      |         | 0.0370880392% |                   |
|   |              |            | Crystalline Silica   | 14808-60-7   |         |               |                   |
|   |              |            | Cured Acrylic Resin  | Trade Secret |         | 0.0005376247% |                   |
|   |              |            | Ethylene Glycol Monobutyl Ether  | 111-76-2     |         |               |                   |
|   |              |            | Methanol   | 67-56-1      |         | 0.0000536435% |                   |
|   |              |            | Poly (oxy-1,2-ethanediyl)  | 24938-91-8   |         |               |                   |
|   |              |            | Quaternary Ammonium Compounds bis[Hydrogenated Tallow Alkyl] Dimethyl Salts With Bentonite | 68953-58-2   |         |               |                   |
|   |              |            | Sodium Bicarbonate   | 144-55-8     |         | 0.0698357268% |                   |
|   |              |            | Water  | 7732-18-5    |         | 0.0160930424% |                   |
| <p>* Total Water Volume sources may include fresh water, produced water, and/or recycled water</p> <p>** Information is based on the maximum potential for concentration and thus the total may be over 100%</p> <p>Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)</p> |              |            |  |              |         |               |                   |