

## Hydraulic Fracturing Fluid Product Component Information Disclosure

|                            |                               |
|----------------------------|-------------------------------|
| Fracture Date:             | 12/27/2012                    |
| State:                     | California                    |
| County:                    | Kern County                   |
| API Number:                | 0403045928                    |
| Operator Name:             | Occidental of Elk Hills, Inc. |
| Well Name and Number:      | 25NH-34R                      |
| Longitude:                 | -119.498067                   |
| Latitude:                  | 35.27461                      |
| Long/Lat Projection:       | NAD83                         |
| Production Type:           | Oil                           |
| True Vertical Depth (TVD): | 3,879                         |
| Total Water Volume (gal)*: | 137,415                       |

### 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 |
|--|--------------|---|---|--|--|--|----------|
| Produced Water (Oxy Provided), YF122- Flex | Schlumberger | Activator , Surfactant , Breaker, Breaker Aid, Gelling Agent, Crosslinker, Clay Control Agent, Industrial Antimicrobial, Emulsion Preventer, Fluid Loss Additive , Propping Agent | Water (Including Mix Water Supplied by Client)* | -  |  | 75.71774%  |          |
|  |              |   | Crystalline silica                              | 14808-60-7                               | 96.67709%  | 23.47538%  |          |
|  |              |   | Phenolic resin                                  | 9003-35-4                                | 4.78526%   | 1.16197%   |          |
|  |              |   | Propan-2-ol                                     | 67-63-0                                  | 1.00625%   | 0.24434%   |          |
|  |              |   | Carbohydrate polymer                            | Proprietary                              | 0.98491%   | 0.23916%   |          |
|  |              |   | Oxyalkylated Alcohol (2)                        | Proprietary                              | 0.90735%   | 0.22033%   |          |
|  |              |   | 2,2',2"-nitrilotriethanol                       | 102-71-6                                 | 0.35651%   | 0.08657%   |          |
|  |              |   | Aliphatic polyol                                | Proprietary                              | 0.30415%   | 0.07385%   |          |
|  |              |   | Diammonium peroxodisulphate                     | 7727-54-0                                | 0.20903%   | 0.05076%   |          |
|  |              |   | Potassium hydroxide                             | 1310-58-3                                | 0.13559%   | 0.03293%   |          |
|  |              |   | Zirconium dichloride oxide                      | 7699-43-6                                | 0.08197%   | 0.01990%   |          |
|  |              |   | Polyethylene glycol monohexyl ether             | 31726-34-8                               | 0.08099%   | 0.01967%   |          |
|  |              |   | Aliphatic co-polymer                            | Proprietary                              | 0.04778%   | 0.01160%   |          |
|  |              |   | Alkylalcohol ethoxylated                        | Proprietary                              | 0.01648%   | 0.00400%   |          |
|  |              |   | Diocetyl sulfosuccinate sodium salt             | Proprietary                              | 0.01648%   | 0.00400%   |          |
|  |              |   | Oxyalkylated Alcohol (1)                        | Proprietary                              | 0.01648%   | 0.00400%   |          |
|  |              |   | Tetrakis(hydroxymethyl)phosphonium sulfate      | 55566-30-8                               | 0.00880%   | 0.00214%   |          |
|  |              |   | Non-crystalline silica                          | 7631-86-9                                | 0.00880%   | 0.00214%   |          |
|  |              |   | Methanol  | 67-56-1                                  | 0.00680%   | 0.00165%   |          |

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\* 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)