## Hydraulic Fracturing Fluid Product Component Information Disclosure

| Fracture Date              | 3/5/2013        |
|----------------------------|-----------------|
| State:                     | California      |
| County:                    | Kern            |
| API Number:                | 0403048689      |
| Operator Name:             | Chevron USA Inc |
| Well Name and Number:      | 32F 12-11ER     |
| Longitude:                 | -119.726338949  |
| Latitude:                  | 35.61786452     |
| Long/Lat Projection:       | NAD83           |
| Production Type:           | Oil             |
| True Vertical Depth (TVD): | 2,430           |
| Total Water Volume (gal)*: | 259,116         |

## Hydraulic Fracturing Fluid Composition:

| Trade Name                  | Supplier    | Purpose               | Ingredients                        | Chemical Abstract<br>Service Number<br>(CAS #) | Maximum Ingredient Concentration in Additive (% by mass)** | Maximum Ingredient Concentration in HF Fluid (% by mass)** | Comments |
|-----------------------------|-------------|-----------------------|------------------------------------|--|--|--|----------|
| Water                       | Chevron     | Base Fluid            |                                    |  | 100.00%  | 74.67497%  |          |
| WG-36                       | Halliburton | Gelling Agent         | Guar gum                           | 9000-30-0                                      | 100.00%  | 0.15488%   |          |
| BC-140                      | Halliburton | Crosslinker           | Monoethanolamine borate            | 26038-87-9                                     | 60.00%   | 0.02386%   |          |
|                             |             |                       | Ethylene glycol                    | 107-21-1                                       | 30.00%   | 0.01193%   |          |
| MO-67                       | Halliburton | Buffer                | Sodium hydroxide                   | 1310-73-2                                      | 30.00%   | 0.00373%   |          |
| FE-1A                       | Halliburton | Iron Control Additive | Acetic anhydride                   | 108-24-7                                       | 100.00%  | 0.00000%   |          |
|                             |             |                       | Acetic Acid                        | 64-19-7  | 60.00%   | 0.00000%   |          |
| CLA-WEB                     | Halliburton | Clay Stabilizer       | Proprietary                        | Proprietary                                    | 60.00%   | 0.01616%   |          |
| CAT-3                       | Halliburton | Activator             | EDTA/Copper chelate                | Confidential Business Information              | 30.00%   | 0.00412%   |          |
| SP BREAKER                  | Halliburton | Breaker               | Sodium persulfate                  | 7775-27-1                                      | 100.00%  | 0.00373%   |          |
| SCALECHEK<br>SCP-2          | Halliburton | Scale Inhibitor       | Glassy calcium magnesium phosphate | 65997-17-3                                     | 100.00%  | 0.01640%   |          |
| Sand-Premium<br>White-20/40 | Halliburton | Proppant              | Crystalline silica, quartz         | 14808-60-7                                     | 100.00%  | 25.05713%  |          |
|                             |             |                       |                                    |  |  |  |          |
|                             |             |                       |                                    |  |  |  |          |
|                             |             |                       |                                    |  |  |  |          |
|                             |             |                       |                                    |  |  |  |          |
|                             |             |                       |                                    |  |  |  |          |
|                             |             |                       |                                    |  |  |  |          |

<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%