Hydraulic Fracturing Fluid Product Component Information Disclosure

| Fracture Date | 12/8/2012 |
|----------------------------|----------------------------------|
| State: | California |
| County: | Kern |
| API Number: | 0403048681 |
| Operator Name: | Occidental Of Elk Hills, Inc. |
| Well Name and Number: | 88N-34R |
| Longitude: | -119.4847695 |
| Latitude: | 35.27043498 |
| Long/Lat Projection: | NAD83 |
| Production Type: | Oil |
| True Vertical Depth (TVD): | 4,226 |
| Total Water Volume (gal)*: | 124,694 |

Hydraulic Fracturing Fluid Composition:

| Trade Name | Supplier | Purpose | Ingredients | Chemical Abstract Service Number (CAS #) | Concentration in Additive | Maximum Ingredient Concentratio n in HF Fluid (% by mass)** | Comments |
|-----------------------------|-------------|----------|------------------------------|--|---------------------------|---|-----------------|
| Brine (KCL) | Operator | | | | 100.00% | 3.87219% | Density = 4.000 |
| SAND - PREMIUM BROWN | Halliburton | Proppant | Crystalline silica, quartz | 14808-60-7 | 100.00% | 94.32465% | |
| EXPEDITE 225 COMPONENT A | Halliburton | Resin | Epoxy resin | Confidential Business Information | 100.00% | 0.89609% | |
| | | | Butyl glycidyl ether | 2426-08-6 | 30.00% | 0.26883% | |
| | | | Butyl lactate | 138-22-7 | 10.00% | 0.08961% | |
| EXPEDITE 350 COMPONENT B | Halliburton | Hardener | 4,4`-Diaminodiphenyl sulfone | 80-08-0 | 60.00% | 0.49444% | |
| | | | Glycol ether | Confidential Business Information | 60.00% | 0.49444% | |
| GBW-30 BREAKER | Halliburton | Breaker | Hemicellulase enzyme | 9012-54-8 | 15.00% | 0.00732% | |
| | | | Carbohydrates | Confidential Business Information | 95.00% | 0.04638% | |

| BE-3S BACTERICIDE | Halliburton | Biocide | 2,2 Dibromo-3-nitrilopropionamide | 10222-01-2 | 100.00% | 0.02767% |
|----------------------|--------------|-------------------------|--|-----------------------------------|--------------------|--------------------------|
| | | | 2-Monobromo-3-nitrilopropionamid e | 1113-55-9 | 5.00% | 0.00138% |
| SP BREAKER | Halliburton | Breaker | Sodium persulfate | 7775-27-1 | 100.00% | 0.00651% |
| Ingredients Listed | Below This I | ine Are Part of the Flu | id Composition Provided by Halliburt | on Which Do Not Appear | On the Material Sa | afety Data Sheets (MSDS) |
| | | | Adipic acid, dimethyl ester | 627-93-0 | | |
| | | | Dimethyl glutarate | 1119-40-0 | | |
| | | | Ethylenediamine | 107-15-3 | | |
| | | | Methanol | 67-56-1 | | |
| | | | n-Beta-(aminoethyl)-gamma-amin opropyl trimethoxysilane | 1760-24-3 | | |
| | | | Phosphate ester | Confidential Business Information | | |
| | | | Phosphoric acid | 7664-38-2 | | |
| | | | Quaternary amine | Confidential Business Information | | |
| | | | Siloxanes and silicones, di-Me, polymers with Me silsesquioxanes | 68037-74-1 | | |
| | | | Sodium sulfate | 7757-82-6 | | |
| | | | Succinic acid, dimethyl ester | 106-65-0 | | |
| | | | | | | |
| | | | | | | |

^{*} 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)

v2.0

^{**} Information is based on the maximum potential for concentration and thus the total may be over 100% Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.