Hydraulic Fracturing Fluid Product Component Information Disclosure

| State: California County: Kern API Number: 04-030-47850 | | |
|--|------------------------|----------------------------|
| County: API Number: Operator Name: ExxonMobil Corporation Well Name and Number: Longitude: Latitude: Long/Lat Projection: Production Type: Oil True Vertical Depth (TVD): | 10/1/2012 | Fracture Date |
| API Number: 04-030-47850 Operator Name: ExxonMobil Corporation Well Name and Number: Hill 674H Longitude: -119.745954 Latitude: 35.478741 Long/Lat Projection: WGS84 Production Type: Oil True Vertical Depth (TVD): 2,997 | California | State: |
| Operator Name: ExxonMobil Corporation Well Name and Number: Hill 674H Longitude: -119.745954 Latitude: 35.478741 Long/Lat Projection: WGS84 Production Type: Oil True Vertical Depth (TVD): 2,997 | Kern | County: |
| Well Name and Number: Longitude: Latitude: Long/Lat Projection: Production Type: True Vertical Depth (TVD): Hill 674H 35.478741 WGS84 Production Type: 2,997 | 04-030-47850 | API Number: |
| Longitude: -119.745954 Latitude: 35.478741 Long/Lat Projection: WGS84 Production Type: Oil True Vertical Depth (TVD): 2,997 | ExxonMobil Corporation | Operator Name: |
| Latitude: 35.478741 Long/Lat Projection: WGS84 Production Type: Oil True Vertical Depth (TVD): 2,997 | Hill 674H | Well Name and Number: |
| Long/Lat Projection: WGS84 Production Type: Oil True Vertical Depth (TVD): 2,997 | -119.745954 | Longitude: |
| Production Type: Oil True Vertical Depth (TVD): 2,997 | 35.478741 | Latitude: |
| True Vertical Depth (TVD): 2,997 | WGS84 | Long/Lat Projection: |
| • ` ` ' | Oil | Production Type: |
| Total Water Volume (gal)*: 292,530 | 2,997 | True Vertical Depth (TVD): |
| | 292,530 | Total Water Volume (gal)*: |

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 | | | | 7732-18-5 | 100.00% | 79.34464% | Density = 8.330 |
| Sand | BJ Services | Proppant | Crystalline Silica (quartz) | 14808-60-7 | 99.90% | 19.62374% | |
| GW3-LDF | BJ Services | Gellant - Water | | | | | |
| | | | Petroleum Distillate Blend | Proprietary | 70.00% | 0.30250% | |
| | | | Guar Gum | 009000-30-0 | 40.00% | 0.17286% | |
| XLW-32 | BJ Services | Cross Linker | | | | | |
| | | | Methanol | 67-56-1 | 90.00% | 0.05531% | |
| | | | Boric Oxide | 68951-67-7 | 20.00% | 0.01229% | |
| BF-7L | Baker Hughes | Special Buffer Solution | Potassium Carbonate | 584-08-7 | 60.00% | 0.09186% | |
| ENZYME G Conc (GBW-12 CD) | BJ Services | Breaker - Water | Hemicellulase Enzyme | N.A. | 100.00% | 0.00234% | |
| KCL | BJ Services | Base Fluid/Salt | Potassium Chloride | 7447-40-7 | 100.00% | 0.00234% | |
| GBW-5 | BJ Services | Breaker - Water | Ammonium Persulfate | 7727-54-0 | 99.00% | 0.01439% | |
| XCIDE-207 | Baker Hughes | Bacteria Control | | | | | |
| | | | 5-chloro-2methyl-4-isothiazolin-3-one | 26172-55-4 | 10.00% | 0.00018% | |
| | | | 2-Methyl-4-isothiazoline-3-one | 2682-20-4 | 5.00% | 0.00009% | |
| | | | Magnesium nitrate | 10377-60-3 | 10.00% | 0.00018% | |
| | | | Magnesium chloride | 7786-30-3 | 5.00% | 0.00009% | |
| | | | Diatomaceous earth, calcined | 91053-39-3 | 60.00% | 0.00105% | |
| | | | Crystalline silica: cristobalite | 14464-46-1 | 1.00% | 0.00002% | |
| | | | Crystalline silica: Quartz (SiO2) | 14808-60-7 | 1.00% | 0.00002% | |
| ENZYME G-1 | Baker Hughes | Special Breaker | N.A. | N.A. | 100.00% | 0.06510% | |
| | | | | | | | |
| | | | | | | | |

^{*} 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)

^{**} Information is based on the maximum potential for concentration and thus the total may be over 100%