

Hydraulic Fracturing Fluid Product Component Information Disclosure

Fracture Date	1/17/2012
State:	CA
County:	Kern
API Number:	04-030-44328
Operator Name:	Chevron USA Inc
Well Name and Number:	Sec 32G 18-19UWT
Longitude:	-119.725579
Latitude:	35.624025
Long/Lat Projection:	NAD83
Production Type:	Oil
True Vertical Depth (TVD):	2,601
Total Water Volume (gal)*:	209,941

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	Chevron	Base Fluid			100.00%	95.46959%	
Sand-Premium White-20/40	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100.00%	4.46821%	
FR-66	Halliburton	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8	30.00%	0.01735%	
OPTIKLEEN-WF	Halliburton	Concentrate	Sodium perborate tetrahydrate	10486-00-7	100.00%	0.00436%	

\* 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)

