Hydraulic Fracturing Fluid Product Component Information Disclosure

Fracture Date	3/25/2013
State:	CA
County:	Kern
API Number:	0403047566
Operator Name:	Chevron USA Inc
Well Name and Number:	Sec 4 4-8H
Longitude:	-119.719577977
Latitude:	35.605649086
Long/Lat Projection:	NAD83
Production Type:	Oil
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True Vertical Depth (TVD):	2,816
Total Water Volume (gal)*:	205,219

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%	71.12030%	
BC-140	Halliburton	Crosslinker	Monoethanolamine borate	26038-87-9	60.00%	0.02495%	
			Ethylene glycol	107-21-1	30.00%	0.01248%	
WG-36	Halliburton	Gelling Agent	Guar gum	9000-30-0	100.00%	0.13093%	
Sand-Premium Brown-20/40	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100.00%	28.63361%	
CAT-3	Halliburton	Activator	EDTA/Copper chelate	Confidential Business Information	30.00%	0.00661%	
CLA-WEB	Halliburton	Clay Stabilizer	Proprietary	Proprietary	60.00%	0.01714%	
FE-1A	Halliburton	Iron Control Additive	Acetic anhydride	108-24-7	100.00%	0.00261%	
			Acetic Acid	64-19-7	60.00%	0.00156%	
MO-67	Halliburton	Buffer	Sodium hydroxide	1310-73-2	30.00%	0.00000%	
SCALECHEK SCP-2	Halliburton	Scale Inhibitor	Glassy calcium magnesium phosphate	65997-17-3	100.00%	0.01869%	
SP BREAKER	Halliburton	Breaker	Sodium persulfate	7775-27-1	100.00%	0.00166%	

^{*} 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%