## Hydraulic Fracturing Fluid Product Component Information Disclosure

Fracture Date 4/2/2013	Fracture Date
State: California	State:
County: Kern	County:
API Number: 04-030-47569	API Number:
perator Name: Chevron USA Inc	Operator Name:
e and Number: 4 5-6K	Well Name and Number:
Longitude: -119.718467115	Longitude:
Latitude: 35.607855403	Latitude:
Lat Projection: NAD83	Long/Lat Projection:
oduction Type: Oil	Production Type:
al Depth (TVD): 2,871	True Vertical Depth (TVD):
Volume (gal)*: 242,858	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	Chevron	Base Fluid			100.00%	72.54577%	
WG-36	Halliburton	Gelling Agent	Guar gum	9000-30-0	100.00%	0.13423%	
BC-140	Halliburton	Crosslinker	Monoethanolamine borate	26038-87-9	60.00%	0.02473%	
			Ethylene glycol	107-21-1	30.00%	0.01237%	
MO-67	Halliburton	Buffer	Sodium hydroxide	1310-73-2	30.00%	0.00330%	
FE-1A	Halliburton	Iron Control Additive	Acetic anhydride	108-24-7	100.00%	0.00289%	
			Acetic Acid	64-19-7	60.00%	0.00173%	
CLA-WEB	Halliburton	Clay Stabilizer	Proprietary	Proprietary	60.00%	0.02069%	
CAT-3	Halliburton	Activator	EDTA/Copper chelate	Confidential Business Information	30.00%	0.00285%	
SP BREAKER	Halliburton	Breaker	Sodium persulfate	7775-27-1	100.00%	0.00125%	
SCALECHEK SCP-2	Halliburton	Scale Inhibitor	Glassy calcium magnesium phosphate	65997-17-3	100.00%	0.01611%	
Sand-Premium White-20/40	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100.00%	27.20355%	

<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%