

Hydraulic Fracturing Fluid Product Component Information Disclosure

Fracture Date	11/05/2011
State:	California
County:	Kern
API Number:	04-030-44143
Operator Name:	Vintage Prod Of Cal
Well Name and Number:	Poznoff 3-7H
Longitude:	-119.27573
Latitude:	35.530339
Long/Lat Projection:	NAD83
Production Type:	Oil
True Vertical Depth (TVD):	8,328
Total Water Volume (gal)*:	577,248

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	Operator	Carrier	Water	7732-18-5	100.00%	79.56208%	0
Alpha 125	Baker Hughes	Biocide	Glutaraldehyde	111-30-8	30.00%	0.00655%	0
Enzyme G-I	Baker Hughes	Breaker	Hemicellulase Enzyme Concentrate	9025-56-3	3.00%	0.00507%	0
0	0	0	Water	7732-18-5	97.00%	0.16386%	0
BC-3	Baker Hughes	Breaker Catalyst	Non-Hazardous Ingredient	N.A.	100.00%	0.02485%	0
BF-7L	Baker Hughes	Buffer	Potassium Carbonate	584-08-7	50.00%	0.17334%	0
XLW-56	Baker Hughes	Crosslinker	D-Glucitol	50-70-4	10.00%	0.01999%	0
0	0	0	Glyoxal	107-22-2	30.00%	0.05998%	0
0	0	0	Sodium Hydroxide	1310-73-2	5.00%	0.01000%	0
0	0	0	Sodium Tetraborate	1330-43-4	10.00%	0.01999%	0
FRW-16A (Pail)	Baker Hughes	Friction Reducer	Non-Hazardous Ingredient	N.A.	100.00%	0.00087%	0
GLFC-1B	Baker Hughes	Gelling Agent	Alkanes / Alkenes	Multiple	45.00%	0.33513%	0
0	0	0	Guar Gum	9000-30-0	50.00%	0.37237%	0
Sand, White, 20/40	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100.00%	18.66386%	0
Sand, White, 100 mesh	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100.00%	0.34715%	0

