

Hydraulic Fracturing Fluid Product Component Information Disclosure								
<div>Last Fracture Date</div> <div>State:</div> <div>County:</div> <div>API Number:</div> <div>Operator Name:</div> <div>Well Name and Number:</div> <div>Longitude:</div> <div>Latitude:</div> <div>Long/Lat Projection:</div> <div>Production Type:</div>	<div>08/28/2012</div> <div>California</div> <div>Kern</div> <div>04-030-47969</div> <div>Vintage Prod Of Cal</div> <div>MJ 24-14W</div> <div>-119.68509</div> <div>35.40302</div> <div>NAD27</div> <div>Oil</div>							
	<div>True Vertical Depth (TVD):</div> <div>6,630</div>							
	<div>Total Water Volume (gal)*:</div> <div>134,820</div>							
	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%	82.76136%	
	Alpha 125	Baker Hughes	Biocide	Glutaraldehyde	111-30-8	30.00%	0.00661%	SmartCare Product
	GBW-5	Baker Hughes	Breaker	Ammonium Persulfate	7727-54-0	100.00%	0.00294%	SmartCare Product
	Enzyme G-I	Baker Hughes	Breaker	Hemicellulase Enzyme Concentrate	9025-56-3	3.00%	0.00409%	SmartCare Product
				Water	7732-18-5	97.00%	0.13219%	
BC-3	Baker Hughes	Breaker Catalyst	No Hazardous Ingredients	Trade Secret	100.00%	0.01252%		
BF-7L	Baker Hughes	Buffer	Potassium Carbonate	584-08-7	60.00%	0.08807%	SmartCare Product	
			Potassium Hydroxide	1310-58-3	1.00%	0.00147%		
			Water	7732-18-5	60.00%	0.08807%		
Clay Master-5C (Tote)	Baker Hughes	Clay Control	Oxyakylated Amine Quat	138879-94-4	60.00%	0.06214%		
XLW-32, 260 gal tote	Baker Hughes	Crosslinker	Boric Acid (H3BO3)	10043-35-3	30.00%	0.01801%		
			Methanol	67-56-1	60.00%	0.03602%		
			Methyl Borate	121-43-7	30.00%	0.01801%		
GW-3LDF	Baker Hughes	Gelling Agent	1-Butoxy-2-Propanol	5131-66-8	5.00%	0.02508%	SmartCare Product	
			Cyrstalline Silica, Quartz (SiO2)	14808-60-7	5.00%	0.02508%		
			Guar Gum	9000-30-0	60.00%	0.30100%		
			Isotridecanol, ethoxylated	9043-30-5	5.00%	0.02508%		
			Paraffinic Petroleum Distillate	64742-55-8	30.00%	0.15050%		
			Petroleum Distillates	64742-47-8	30.00%	0.15050%		
Sand, White, 30/50	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100.00%	11.95955%		
Super LC, 30/50	Baker	Proppant	Hexamethylenetetramine	1009-7-0	0.01%	0.00039%		

[illegible]