

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	8/24/2015
Job End Date:	9/1/2015
State:	Texas
County:	Karnes
API Number:	42-255-34008-00-00
Operator Name:	EOG Resources, Inc.
Well Name and Number:	PRESLEY UNIT # 3H
Longitude:	-97.63605180
Latitude:	29.10953300
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	12,172
Total Base Water Volume (gal):	13,893,622
Total Base Non Water Volume:	0



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	EOG	Carrier/Base Fluid					
			Water	7732-18-5	100.00000	88.14466	
Sand	EOG	Proppant					
			Crystalline Silica	14808-60-7	100.00000	11.70361	
ScaleTreat 7001	Independence	Scaling Inhibitor					
			Water	7732-18-5	75.00000	0.03299	
			Salt of phosphono-methylated triamine	Proprietary	25.00000	0.01100	
Hydrochloric Acid	Chemplex	Acid					
			Water	7732-18-5	100.00000	0.03715	
			Hydrochloric Acid	7647-01-0	10.00000	0.00372	
HiRate 605	Independence	Anionic Friction Reducer					
			Petroleum Distillates, Hydrotreated Light	64742-47-8	30.00000	0.01055	
			Alcohols (C10-C16), Ethoxylated	68002-97-1	3.00000	0.00106	
			Alcohols (C12-C16), Ethoxylated	68551-12-2	3.00000	0.00106	
			Alcohols (C12-C14), Ethoxylated	68439-50-9	3.00000	0.00106	
HiRate 600	Independence	Friction Reducer					
			Proprietary	Proprietary	46.00000	0.00533	

			Distillates, (petroleum), hydrotreated light	Proprietary	30.00000	0.00348	
			Non-ionic polyacrylamide	Proprietary	24.00000	0.00278	
B-1203	Aquaserv	Microbiocide					
			Glutaraldehyde	111-30-8	14.00000	0.00334	
			Ethanol	64-17-5	3.00000	0.00071	
			Alkyl dimethyl benzyl ammonium chloride	68424-85-1	3.00000	0.00071	
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00071	

Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.

* 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%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)