

Hydraulic Fracturing Fluid Product Component Information Disclosure

	10/14/2017
	10/28/2017
	New Mexico
	Eddy
	30-015-43702-00-00
	CHISHOLM ENERGY OPERATING, LLC
	Cottonwood 29-32 FE 1H
	32.01995600
	-104.31987400
	NAD83
	YES
	NO
	6,685
	10,065,830
	0

NM OIL CONSERVATION
ARTESIA DISTRICT
JAN 20 2018

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Frac Focus
Chemical Disclosure Registry



Hydraulic Fracturing Fluid Composition:

Water	Schlumberger	N/A					
			Water (Including Mix Water Supplied by Client)*	7732-18-5		89.22423	
B536	Schlumberger	B536 Biocide C-Quat 1440					
				Listed Below			

S100	Schlumberger	Fluid Loss Additive								
						Listed Below				
B526†	Schlumberger	Non-Emulsifying Agent								
						Listed Below				
A264	Schlumberger	Corrosion Inhibitor								
						Listed Below				
L069	Schlumberger	Scale Inhibitor								
						Listed Below				
S012-2040	Schlumberger	Propping Agent								
						Listed Below				
U042	Schlumberger	Chelating Agent								
						Listed Below				
J627	Schlumberger	Friction Reducer								
						Listed Below				
H036	Schlumberger	Acid								
						Listed Below				
Items above are Trade Names with the exception of Base Water . Items below are the individual ingredients.										
			Quartz, Crystalline silica	14808-60-7	99.27115	10.69723				
			Hydrochloric acid	7647-01-0	0.42128	0.04540				

			Distillates, petroleum, hydrotreated light	64742-47-8	0.08545	0.00921	
			Acrylamide/ammonium acrylate copolymer	26100-47-0	0.06510	0.00702	
			Alkyl(c12-16) dimethylbenzyl ammonium chloride	68424-85-1	0.04252	0.00458	
			Ammonium chloride	12125-02-9	0.04069	0.00438	
			Calcium magnesium sodium phosphate frit	65997-18-4	0.02499	0.00269	
			Sorbitan monooleate	1338-43-8	0.00814	0.00088	
			Ethoxylated oleic acid	9004-96-0	0.00814	0.00088	
			Ethanol	64-17-5	0.00531	0.00057	
			Tetrasodium ethylenediaminetetraacetate	64-02-8	0.00380	0.00041	
			Methanol	67-56-1	0.00286	0.00031	
			Sorbitol Tetraoleate	61723-83-9	0.00244	0.00026	
			Sodium sulfocyanate	540-72-7	0.00212	0.00023	
			2-Propenoic acid, ammonium salt	10604-69-0	0.00199	0.00021	
			Fatty acids, tall-oil	61790-12-3	0.00199	0.00021	
			Alcohols, C10-C16, ethoxylated	68002-97-1	0.00163	0.00018	
			Thiourea, polymer with formaldehyde and 1-phenylethanone	68527-49-1	0.00165	0.00018	
			Alcohols, C14-15, ethoxylated (7EO)	68951-67-7	0.00130	0.00014	
			Alcohols, C12-C14, ethoxylated	68439-50-9	0.00122	0.00013	
			C14 alpha olefin ethoxylate	84133-50-6	0.00122	0.00013	
			Alcohols, C12-C16, ethoxylated	68551-12-2	0.00122	0.00013	
			Isopropyl alcohol	67-63-0	0.00083	0.00009	
			Polymer of fatty acid	Proprietary	0.00070	0.00008	
			Propargyl alcohol	107-19-7	0.00052	0.00006	

			Alcohols, C11-14-iso, C13-rich, ethoxylated	78330-21-9	0.00037	0.00004	
			2-Propenamid (impurity)	79-06-1	0.00037	0.00004	
			Sodium Glycolate (impurity)	2836-32-0	0.00031	0.00003	
			Hexadec-1-ene	629-73-2	0.00017	0.00002	
			Sodium hydroxide	1310-73-2	0.00013	0.00001	
			Formaldehyde	50-00-0	0.00001	0.00001	
			Trisodium Ethylenediaminetetraacetate (impurity)	150-38-9	0.00010	0.00001	
			Trisodium nitrioltriacetate (impurity)	5064-31-3	0.00005	0.00001	
			Octadec-1-ene	112-88-9	0.00009	0.00001	
			Disodium Ethylene Diamine Tetra Acetate (impurity)	139-33-3	0.00010	0.00001	

* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

*** If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

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)