

# Hydraulic Fracturing Fluid Product Component Information Disclosure

Fracture Date:	2/18/2013
State:	Texas
County:	Mitchell County
API Number:	42-335-35737
Operator Name:	Devon Energy Corp (OKC)
Well Name and Number:	Scharlach M #1H
Longitude:	-100.9
Latitude:	32.21
Long/Lat Projection:	NAD83
Production Type:	Oil
True Vertical Depth (TVD):	7,262
Total Water Volume* (gal):	10,636,068

## 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	Devon Energy Corp (OKC)	Carrier / Base Fluid	Carrier / Base Fluid - Water		100.00%	91.06650%	
100 Mesh Sand	WFT	Proppant	Crystalline Silica in the form of Quartz	14808-60-7	100.00%	2.34752%	
40/70 Premium	WFT	Proppant	Crystalline Silica in the form of Quartz	14808-60-7	100.00%	5.93287%	
Bio-Clear® 5000	WFT	Bactericide	2,2-dibromo-3-nitrilopropionamide	10222-01-2	5.00%	0.00093%	
			Polyethylene Glycol	25322-68-3	50.00%	0.00928%	
WBK-143L	WFT	Breaker	Potassium chloride	7447-40-7	15.00%	0.00461%	
			Sodium chlorite	7758-18-2	15.00%	0.00461%	
WCS-631LC	WFT	Clay Control	No ingredients as hazardous according to OSHA 29 CFR 1910.1200		0.00%	0.00000%	
WFR-55LA (W)	WFT	Friction Reducers	No ingredients as hazardous according to OSHA 29 CFR 1910.1200		0.00%	0.00000%	
WSI-671L	WFT	Inhibitor	Ammonium Chloride	12125-02-9	20.00%	0.00244%	
WNE-341LN	WFT	Surfactant	Methanol	67-56-1	60.00%	0.04349%	
15% HCL	WFT	Acid	Hydrochloric Acid	7647-01-1	15.00%	0.04036%	
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.							
			Amines, polyethylenepoly-, ethoxylated, phosphonomethylated	68966-36-9		0.00489%	
			Anionic water soluble polymer	Mixture		0.02225%	
			Choline Chloride	67-48-1		0.12310%	
			Deionized Water	7732-18-5		0.03081%	
			Nonionic Surfactant			0.03624%	
			Proprietary Ingredient	Proprietary		0.06107%	
			Sodium chloride	7647-14-5		0.00615%	



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

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