

# Hydraulic Fracturing Fluid Product Component Information Disclosure

Fracture Date:	1/9/2013
State:	Texas
County:	Tarrant County
API Number:	42-439-36587
Operator Name:	DEVON ENERGY
Well Name and Number:	Murrin Bear Creek 8H
Longitude:	-97.623363
Latitude:	32.596623
Long/Lat Projection:	NAD27
Production Type:	Gas
True Vertical Depth (TVD):	6,535
Total Water Volume* (gal):	7794624 (gal)

## 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-BRID GEPORT	Carrier / Base Fluid	Carrier / Base Fluid - Water		100.00%	94.93453%	
Ottawa Sand 20/40 (2.63 sg)	WFT	Proppant	Crystalline Silica in the form of Quartz	14808-60-7	100.00%	1.84301%	
Ottawa Sand 40/70 (2.63 sg)	WFT	Proppant	Crystalline Silica in the form of Quartz	14808-60-7	100.00%	2.58378%	
100 Mesh Sand	WFT	Proppant	Crystalline Silica in the form of Quartz	14808-60-7	100.00%	0.40259%	
WFR-55LA (W)	WFT	Friction Reducers	No ingredients as hazardous according to OSHA 29 CFR 1910.1200		0.00%	0.00000%	
ZetaFlow	WFT	Misc. Chemicals	Aniline	62-53-3	1.00%	0.00050%	
			Ethylene Glycol	107-21-1	40.00%	0.01994%	
			Methanol	67-56-1	30.00%	0.01495%	
			Phosphate Ester	Proprietary	15.00%	0.00748%	
			Quaternized Alkyl Nitrogenated Compd	Proprietary	60.00%	0.02991%	
Chlorine Dioxide (Calculated)	Baker Hughes	Biocide	Sodium Chlorite	7758-19-2	25.00%	138.700000	
Scaletrol 5277, 55 gal drum	Baker Hughes	Scale Inhibitor	Phosphonate Salt	Trade Secret	5.00%	179.027687	

[illegible]


\*\*For some of the constituents listed above, the data submitted by Weatherford is provided in good faith reliance on the representations of Weatherford's vendors/suppliers.

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