

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	6/10/2017
Job End Date:	6/30/2017
State:	Texas
County:	Andrews
API Number:	42-003-47471-00-00
Operator Name:	Diamondback E&P LLC
Well Name and Number:	UL Mason West Unit 8LS
Latitude:	32.41518030
Longitude:	-102.23462230
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	9,566
Total Base Water Volume (gal):	23,249,226
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	Operator	Carrier/Base Fluid	Water	7732-18-5	100.00000	89.66191	None
Sand	Santrol	Proppant	Silica	14808-60-7	100.00000	9.34469	None
HA04-10-15% HCL	Reagent Chemical	Acidizing	Water	7732-18-5	85.00000	0.62857	None
			Hydrogen Chloride	7647-01-0	15.00000	0.11092	None
NE601-NE/Surfactant	Solnexus	Surfactant	Diethanolamide	111-42-2	70.00000	0.06439	None
			Methanol	67-56-1	70.00000	0.06439	None
			Polyoxyalkylene glycol butyl ether	9004-77-7	50.00000	0.04599	None
FR02-Cationic Friction Reducer	Solnexus	Cationic Friction Reducer	Trade Secret	Proprietary	100.00000	0.09814	None
			Petroleum Hydrotreated Light Distillate	64742-47-8	25.00000	0.02453	None
CS01-Clay Stabilizer	Solnexus	Clay Stabilizer	Isopropyl Alcohol	67-63-0	50.00000	0.01194	None

			Methanol	67-56-1	50.00000	0.01194	None
SI42-Chelating Agent	Solnexus	Scale Inhibitor					
			Water	7732-18-5	55.00000	0.00627	None
			Trade Secret	Proprietary	45.00000	0.00513	None
IC5-Iron Control	Solnexus	Iron Control					
			Water	7732-18-5	60.00000	0.00213	None
			Acetic Acid	64-19-7	60.00000	0.00213	None
			Citric Acid	77-92-9	30.00000	0.00106	None
BRXPA-Plexgel XPA Breaker	Chemplex	Breaker					
			Hydrogen Peroxide	7722-84-1	7.00000	0.00163	None
CI200-Corrosion Inhibitor	Economy Polymers	Corrosion Inhibitor					
			Methanol	67-56-1	60.00000	0.00063	None
NE116-Plexbreak 116	Chemplex	N/E Surfactant					
			Methanol	67-56-1	50.00000	0.00027	None
			Alkyl Quarternary Ammonium Chlorides	7173-51-5	25.00000	0.00014	None
			Isopropanol	67-63-0	5.00000	0.00003	None
			Diethanolamide	111-42-2	2.00000	0.00001	None

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)