

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	5/20/2021
Job End Date:	6/23/2021
State:	Texas
County:	Andrews
API Number:	42-003-48278-00-00
Operator Name:	Diamondback E&P LLC
Well Name and Number:	UL 1933 E10 05SC
Latitude:	32.39158500
Longitude:	-102.23080200
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	9,532
Total Base Water Volume (gal):	26,097,367
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
Produced Water	Halliburton	Base Fluid					
			Water	7732-18-5	100.00000	90.56794	Density = 8.50
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.06566	

SAND-LOCAL, 100M	Halliburton	Proppant					
				Listed Below			
FE-1A ACIDIZING COMPOSITION	Halliburton	Additive					
				Listed Below			
OptiKleen-WF (TM)	Halliburton	Concentrate					
				Listed Below			
LP-65 MC	Halliburton	Scale Inhibitor					
				Listed Below			
FightR-HSD (SBM)	Halliburton	Friction Reducer					
				Listed Below			
SDS_BX 1919 FracGlass®	Bexco Solutions	Diverter					
				Listed Below			
FDP-S1374-19	Halliburton	Friction Reducer					
				Listed Below			
TRANSCEND- 350	Halliburton	Surfactant					
				Listed Below			
TRANSCEND- 350W	Halliburton	Surfactant					

				Listed Below			
BEXCO BX PL07	Bexco Solutions	Diverter					
				Listed Below			
FDP-S1296-17	Halliburton	Acid Corrosion Inhibitor					
				Listed Below			
HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent					
				Listed Below			
FE-2A	Halliburton	Additive					
				Listed Below			
Bexco LG 1W4	Bexco Solutions	Gelling Agent					
				Listed Below			

Items above are Trade Names with the exception of Base Water . Items below are the individual ingredients.

			Crystalline silica, quartz	14808-60-7	100.00000	9.35029	
			Ethoxylated alcohols	Proprietary	30.00000	0.01291	
			Polymer salt	Proprietary	100.00000	0.00852	
			Hydrochloric acid	7647-01-0	30.00000	0.00577	
			Sodium perborate tetrahydrate	10486-00-7	100.00000	0.00310	
			Fatty amine salt	Proprietary	5.00000	0.00214	
			Glycerine	56-81-5	5.00000	0.00214	
			synthetic polymer	Proprietary	65.00000	0.00211	
			Distillates (petroleum),	64742-47-8	70.00000	0.00141	
			bipolymer resin	Proprietary	39.00000	0.00127	

			Acetic anhydride	108-24-7	100.00000	0.00080	
			Acetic acid	64-19-7	60.00000	0.00052	
			Citric acid	77-92-9	60.00000	0.00050	
			Methanol	67-56-1	100.00000	0.00032	
			Polymer	Proprietary	30.00000	0.00019	
			Heavy distillate	Proprietary	30.00000	0.00019	
			Organic phosphonate	Proprietary	60.00000	0.00011	
			Modified thiourea polymer	Proprietary	30.00000	0.00010	
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00010	
			Ammonium chloride	12125-02-9	30.00000	0.00005	
			Sodium chloride	7647-14-5	5.00000	0.00003	
			Propargyl alcohol	107-19-7	5.00000	0.00002	
			Hexadecene	629-73-2	5.00000	0.00002	
			Diammonium phosphate	7783-28-0	5.00000	0.00001	
			Acrylamide	79-06-1	0.10000	0.00001	
			Ethoxylated fatty acid	Proprietary	1.00000	0.00001	
			Alkybenzene sulfonic acid	85536-14-7	1.00000	0.00001	
			Nonylphenol ethoxylate	Proprietary	1.00000	0.00001	
			Ethylene oxide	75-21-8	0.01000	0.00000	
			Biopolymer Resin	Proprietary	100.00000	0.00000	

* 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)