Halliburton  D CONCENTR  Irpose ase Fluid lay Stabilizer riction Reducer urfactant dditive dditive dditive orrosion Inhibito olvent oncentrate roppant araffin Inhibitor	Ingredients  Water Listed Below Listed Below Listed Below Listed Below Listed Below Listed Below	(CAS #) Chemi Service # 7732-18-5 Listed Below Listed Below Listed Below Listed Below	10, 16. Total Volu 6,4 18. Percent of No cal Abstract	Feet from:210 Feet from:2550  5. Bottom Hole Location: Unit: C Lot: C Section:29 Feet from:71 Feet from:2272  6. latitude: 32.18059598  7. County: Lea  217955  10. Phone Numb	Maximum Ingredient
D CONCENTR  Jurpose  ase Fluid lay Stabilizer riction Reducer urfactant dditive dditive orrosion Inhibito olvent oncentrate roppant araffin Inhibitor	Ingredients  Water Listed Below	Service #  7732-18-5 Listed Below Listed Below Listed Below Listed Below	12. Production O 14. Gross Frac 10, 16. Total Volu 6,4 18. Percent of No	n Type:  Stured Interval: 820 ft to 14,340 ft me of Fluid Pumped: 09,917 gals Re-Use Water in Fluid Pumped: t Disclosed  Maximum Ingredient Concentration in Additive (% by mass)	Maximum Ingredient
ase Fluid lay Stabilizer riction Reducer urfactant dditive dditive orrosion Inhibito olvent oncentrate roppant araffin Inhibitor	Ingredients  Water Listed Below	Service #  7732-18-5 Listed Below Listed Below Listed Below Listed Below	10, 16. Total Volu 6,4 18. Percent of No cal Abstract	820 ft to 14,340 ft me of Fluid Pumped: 09,917 gals Re-Use Water in Fluid Pumped: t Disclosed  Maximum Ingredient Concentration in Additive (% by mass)	Maximum Ingredient Concentration in HF Fluid (% by
ase Fluid lay Stabilizer riction Reducer urfactant dditive dditive orrosion Inhibito olvent oncentrate roppant araffin Inhibitor	Ingredients  Water Listed Below	Service #  7732-18-5 Listed Below Listed Below Listed Below Listed Below	cal Abstract	Maximum Ingredient Concentration in Additive (% by mass)	
lay Stabilizer riction Reducer urfactant dditive dditive orrosion Inhibito olvent oncentrate roppant araffin Inhibitor	Listed Below	Listed Below Listed Below Listed Below Listed Below		100%	maaa)
urfactant dditive dditive orrosion Inhibito olvent oncentrate roppant oroppant	Listed Below	Listed Below Listed Below			90.00867% 0%
dditive orrosion Inhibito olvent oncentrate roppant roppant	Listed Below Listed Below Listed Below Listed Below Listed Below			0% 0% 0%	0% 0% 0%
olvent oncentrate roppant roppant araffin Inhibitor	Listed Below Listed Below			0%	0%
roppant roppant araffin Inhibitor		Listed Below Listed Below		0%	0% 0%
araffin Inhibitor		Listed Below Listed Below		0%	0% 0%
	Listed Below	Listed Below		0%	0%
cale Inhibitor	Listed Below Listed Below	Listed Below		0%	0%
cale Inhibitor iocide	Listed Below Listed Below	Listed Below Listed Below		0% 0%	0% 0%
iocide	Listed Below Listed Below	Listed Below		0%	0%
sted Above	Acetic acid Acetic anhydride Acrylamide	64-19-7 108-24-7 79-06-1		0% 60% 100% 0.01%	0.00148% 0.00246% 1E-05%
	Acrylamide, sodium acrylate polymer	25987-30-8		30%	0.03413%
	ethoxylated	66455-14-9 68551-12-2			0.01391% 0.00232%
	ethoxylated Amine	Proprietary		0.1%	5E-05%
	Amine salts Ammonium	Proprietary Proprietary		1% 30%	0.00054% 0.01463%
	Calcium chloride Chlorine compound	10043-52-4 Proprietary		5% 30%	0.00134% 0.01463%
	Citric acid Crystalline silica,	77-92-9 14808-60-7		60% 100%	0.00153% 9.60466%
	Crystalline silica: Quartz	14808-60-7		1%	0.00013%
	Diatomaceous earth, calcined	91053-39-3		50%	0.00469%
	Ethoxylated branched			5%	0.00012% 0.00569%
	Ethylene glycol Ethylene oxide	107-21-1 75-21-8		30% 0.01%	0.00801% 0%
	Hydrochloric acid	7647-01-0		60%	0.00012% 0.06081% 0.00072%
	Hydrotreated light petroleum distillate	64742-47-8		30%	0.03413%
	Methanol Mineral oil	67-56-1 8042-47-5		60% 30%	0.00025% 0.00111%
	Phosphonic acid, sodium salt	15475-67-9		5%	5E-05% 0.00047%
	Phosphonomethylated diamine, sodium salt			20%	0.00187%
	Propargyl alcohol  Quaternary amine  Reaction product of	107-19-7 Proprietary 68527-49-1		10% 1% 30%	4E-05% 0.00098% 0.00012%
	acetophenone, formaldehyde, thiourea and oleic acid	1		3370	5.5351276
	Sobitan, mono-9- octadecenoate, (Z)	1338-43-8		5%	0.00569%
	Sodium chloride Sodium chlorite Sodium diacetate	7647-14-5 7758-19-2 126-96-5		10% 35% 5%	0.0015% 0.0028% 0.00569%
	Sodium hydroxide Sodium hypochlorite	001310-73-2 007681-52-9		2% 13%	0.00012% 0.00079%
	tetrahydrate				0.01231% 0.00569%
	polyoxyethylene derivative				
	m is true and complete to the I		edge and belie		0.27715%
	d Name: <u>Stormi [</u>	Acetic anhydride Acrylamide Acrylamide, sodium acrylate polymer Alcohols, C12-13, ethoxylated Alcohols, C12-16, ethoxylated Amine Amine salts Ammonium compound Calcium chloride Chlorine compound Citric acid Crystalline silica; quartz Crystalline silica: Quartz Diatomaceous earth, calcined Ethoxylated alcohols Ethoxylated branched C13 alcohol Ethylene glycol Ethylene oxide Fatty acids, tall oil Hydrochloric acid Hydrogen chloride Hydrotreated light petroleum distillate Methanol Mineral oil Olefins Phosphonic acid, sodium salt Phosphonic acid, sodium salt Propargyl alcohol Quaternary amine Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide Sobitan, mono-9- octadecenoate, (Z) Sodium chlorite Sodium florite Sodium perborate tetrahydrate Sorbitan monooleate polyoxyethylene derivative Water In this disclosure form is true and complete to the led Mame: Stormi Davis	Acetic anhydride Acrylamide, sodium acrylate polymer Alcohols, C12-13, ethoxylated Alcohols, C12-16, ethoxylated Alcohols, C12-16, ethoxylated Alcohols, C12-16, ethoxylated Amine Balts Amine Proprietary Amine salts Ammonium Ammonium Ammonium Calcium chloride Calcium chloride Citric acid Crystalline silica, quartz Crystalline silica; 14808-60-7 Quartz Diatomaceous earth, 91053-39-3 Calcined Ethoxylated alcohols Proprietary Ethoxylated branched C13 alcohol Ethylene glycol Ethylene glycol Ethylene oxide Fatty acids, tall oil Hydrogen chloride Hydrogen chloride Hydrogen chloride Methanol Mineral oil Olefins Proprietary Phosphonic acid, sodium salt Phosphonomethylated diamine, sodium salt Propargyl alcohol Coutary Phosphonomethylated diamine, sodium salt Propargyl alcohol Coutary Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide Sobitan, mono-9-octadecenoate, (2) Sodium chloride Sodium pyrobroirete Sorbitan monooleate polyoxyethylene derivative Water T732-18-5  In this disclosure form is true and complete to the best of my knowled Name: Stormi Davis	Acetic anhydride Acrylamide Acrylamide, sodium acrylate polymer Alcohols, C12-13, 6455-14-9 ethoxylated Alcohols, C12-16, 68551-12-2 ethoxylated Amine Amine Proprietary Amine salts Proprietary Ammonium Calcium chloride Chlorine compound Calcium chloride Chlorine compound Crystalline silica: Quartz Crystalline silica: Quartz Diatomaceous earth, 91053-39-3 calcined Ethoxylated alcohols Ethoxylated alcohols Ethoxylated proprietary Citric acid Ethoxylated proprietary Crystalline silica: Quartz Diatomaceous earth, 91053-39-3 calcined Ethoxylated branched C13 alcohol Ethylene glycol I70-21-1 Ethylene glycol Hydrochloric acid Hydrochloric acid Hydrogen chloride Hydrochloric acid Hydrogen chloride Hydrotreated light petroleum distillate Methanol Hethanol Froprietary Phosphonomethylated diamine, sodium salt Propargyl alcohol Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide Sobitan, mono-9- octadecenoate, (Z) Sodium chlorite Sodium phyochloride Sodium phyoc	Acetic acid