State of new Mexicos Clic Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505											
## PYDRAULIC FRACTURING FLUID 1220 S. St Francis Dr. Santa Fe, NM 87505 ## HYDRAULIC FRACTURING FLUID 1220 S. St Francis Dr. Santa Fe, NM 87505 ## HYDRAULIC FRACTURING FLUID 1220 S. St Francis Dr. Santa Fe, NM 87505 ## HYDRAULIC FRACTURING FLUID 1220 S. St Francis Dr. Santa Fe, NM 87505 ## HYDRAULIC FRACTURING FLUID 1220 S. St Francis Dr. Santa Fe, NM 87505 ## HYDRAULIC FRACTURING FLUID 1220 S. St Francis Dr. Santa Fe, NM 87505 ## HYDRAULIC FRACTURING FLUID 1220 S. St Francis Dr. Santa Fe, NM 87505 ## HYDRAULIC FRACTURING FLUID 1220 S. St Francis Dr. Santa Fe, NM 87505 ## HYDRAULIC FRACTURING FLUID 1220 S. St Francis Dr. Santa Fe, NM 87505 ## HYDRAULIC FRACTURING FLUID 1220 S. St Francis Dr. Santa Fe, NM 87505 ## HYDRAULIC FRACTURING FLUID 1220 S. St Francis Dr. Santa Fe, NM 87505 ## HYDRAULIC FRACTURING FLUID 1220 S. St Francis Dr. Santa Fe, NM 87505 ## HYDRAULIC FRACTURING FLUID 1220 S. St Francis Dr. Santa Fe, NM 87505 ## HYDRAULIC FRACTURING FLUID COMPOSITION AND CONCENTRATION: ## HYDRAULIC FRACTURING FLUID FLUID COMPOSITION AND CONCENTRATION: ## HYDRAULIC FRACTURING FLUID FLUID FLUID COMPOSITION AND CONCENTRATION FLUID Flui	Submit within 45 days of well completion		State of New Mexico								
Amendment											
## HYDRAULIC FRACTURING FLUID DISCLOSURE X Original Amendment						urces	30-043-31302				
Amendment											
DISCLOSURE Continue and Address Contin											
Amendment	HYDRAULIC FE	PACTURII	NG FLUID	10.00							
Amendment							Feet from:2390 N/S Line:N		Range:08W		
B. Openior Name and Auditions B. Powerfor Name and Auditions							Unit:G Lot:G Section:14 Township:28N Range:08		Range:08W		
8. Operator Name and Addresses. 8. Operator Name and Addresses. 8. PAMERICA PRODUCTION COMPANY 737 North Edicidge Parliaway Househor 777 North Edicidge Parliaway 19. Tool Version Even (1709)											
B. Operator Name and Althores PAMERICA PRODUCTION COMPANY 727 Note Telegrape Parkinsky										.6477661	
B. Operator Part August Part											
### PAMERICA PRODUCTION COMPANY ### 773 North Bridge Parkness by ### 11. Last Parks at Size ### 570/2016 Face Parkness by Hallburton 12. Production Type: 11. Last Parks at Size ### 570/2016 Face Parkness by Hallburton 12. Production Type:							00	ii oddii			
11. Last Packurs Date \$7,02016 Fase Pedemod by Hallburtion 12. Proceedings 13. Treat Versional Boen (TVD) 15. Treat Versional Version (TVD) 15. Treat Versional Version (TVD) 15. Treat Versional V	BP AMERICA PRO 737 North Eldridge		MPANY			9. OGRID:	778	10. Phone Number:	281-	-892-5369	
15 Total Verland Depth (VIVO) 17 Total Verland Depth (VIVO) 18 Percent of Republic Water Plane Pumped 19 Total Verland Depth (VIVO) 18 Percent of Republic Water Plane Pumped 19 Percent Verland P	11. Last Fracture Date: 5/20/	2016 Frac Perf	ormed by: Halliburton			G					
18. Treat Victoria Depart (VPD); 7.340 17. Treat Worker of Recise Wieter Pumped 17. Treat Worker 17. Treat Worker of Recise Wieter 17. Treat Worker of Recise Wieter 17. Treat Worker											
17. Total Volume of Re-Use Water Pumper:	15. True Vertical Depth (TVD):					16. Total Volu					
No. Decision No. Decision Decision No. Decision Decision No. Decision No.				18 Percent -	6,603 gals						
Trade Name	N/A		STOCKES STOCKES	1.00.070		N. Percent o	ot Disclosed	Triala rampea.			
Fresh Water									T		
Fresh Water	Trade Name	Supplier	Purpose	Ingredients		cal Abstract					
HORDOPHLORIC ACID Hallburton Sase Fluid NA NA 0% NA	Fresh Water	Operator	Page Fluid	Freeh Water	7722 10 E		mass)	100%		57.0622204	
NITROGEN LIQUEFIED Haliburton Fluid NA NA 0%										0%	
1.2.4 1.2.4 1.2.5 1.2.	NITROGEN LIQUEFIED		Fluid	NA	NA		0%			0%	
76, Gas Corrosion Inhibitor, Finction Reducer, Microbiocide, Microbioci		Halliburton								0%	
Priction Reducer, Microbiocide, Arylamide acrylate Arylamide acrylate Dollymer Alcohols, C14-C15, 68951-67-7 30% 0.0003 Alcohols, C14-C15, 68951-67-7 30% 0.0003 Citrus, extract 34266-47-4 10% 0.0107 Citrus, extract 34266-47-4 10% 0.0176 Citrus, extract 34266-47-4 10% 0.0176 Citrus, extract 34266-47-5 0.0066 Citrus, extract 34266-47-5 0.0066 Citrus, extract 34266-47-5 0.0066 Citrus, extract 34266-67 0.0066 Citrus, extract 34266-67 0.0066 Citrus, extract 34266-67 0.0066 Citrus, extract 34266-67 0.0066 Citrus, extract 0.0066 Citrus, extract 0.0067 Citrus, extract 0.006					90-03-0			1 %0		1E-05%	
Acrylamica erylate Dollmer Alcohols C14-C15, 68951-67-7 30% 0.0003				2-Bromo-2-	52-51-7			100%		0.00133%	
Alcohols, C14-C15 68951-67-7 30% 0.0003					Confidential		30%			0.01798%	
Alkyl sulfonate				Alcohols, C14-C15,	68951-67-7		30%			0.00033%	
Crystalline silica, quartz 14808-80-7 100% 14.7538 quartz					Confidential			60%		0.10567%	
Quartz Diethylene glycol 111-46-6 10% 0.0176										0.01079%	
Diethylene glycol							100%			14.75384%	
Ethoxylated oil					111-46-6		10%			0.01761%	
Ethylene glycol monobutyl ether 111-76-2 30% 0.0528					Confidential					0.00067%	
Pathy acids, fail oil Confidential 30% 0.0003 Heavy aromatic petroleum naphtha Hydrochioric acid 7647-01-0 60% 0.7931 Hydrochioric acid 7647-01-0 60% 0.07931 Hydrochioric acid 64742-47-8 30% 0.0179 petroleum distillate Isopropanol 67-63-0 30% 0.0323 Methanol 67-56-1 60% 0.0006 Naphthalene 91-20-3 5% 66-0 Nitrogen 7727-37-9 100% 24.2007 Olefins Confidential 5% 0.0001 Oxyaliylated Oxfidential 5% 0.0001 Oxyaliylated Confidential 5% 0.0001 Oxy-1,2-ethanediyl), alpha-(4-nonyliphenyth) - omega-hydroxy-, branched Polyovyaliylones Foregargy laciohol 0.7447-40-7 100% 1.4066 Potassium chloride 7447-40-7 100% 1.4066 Propargy laciohol 0.71-19-7 10% 0.0001 Quaternary ammonium Compounds Reaction product of a cetophenone, formaldehyde, thiourea and oleic acid in dimethy de, thiourea and oleic acid in dimethyde Sodium perborate tetrahydrate Terpene Confidential 10% 0.0107										0.01079%	
Heavy aromatic petroleum naphtha Hydrochloric acid 7647-0-1-0 60% 0.7931				monobutyl ether	111702			3070		0.0320370	
Hydrochloric acid 7647-01-0 60% 0.7931 Hydrotreated light petroleum distillate 1509ropanol 67-63-0 30% 0.0179 Isopropanol 67-56-1 60% 0.0006 Naphthalene 91-20-3 55% 6E-0 Nitrogen 7727-37-9 100% 24,2007 Olefins Confidential 59% 0.0001 Oxyalicylated Confidential 59% 0.0001 Oxyalicylated Confidential 30% 0.0004 Poly (oxy-1,2-ethanediyl), alpha-(4-nonylphenyl) - omega-hydroxy-, branched Polyoxyalicylenes Confidential 30% 0.0647 Potassium chloride 7447-40-7 100% 1.4066 Propargyl alcohol 107-19-7 10% 0.0001 Quaternary Confidential 10% 0.0107 ammonium Confidential 10% 0.0003 Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide Sodium perborate tetrahydrate Terpene Confidential 10% 0.0070 Terpene Confidential 10% 0.0107				Heavy aromatic						0.00033% 0.00033%	
Hydrotreated light petroleum distillate Sopropanol 67-63-0 30% 0.0323					7647-01-0		60%			0.79316%	
Isopropanol 67-63-0 30% 0.0323				Hydrotreated light			30%			0.01798%	
Methanol 67-56-1 60% 0.0066 Naphthalene 91-20-3 5% 6E-0 Nitrogen 7727-37-9 100% 24,2007 Olefins Confidential 5% 0.0001 Oxyalkylated phenolic resin Confidential 30% 0.0004 Poly (oxy-1,2-ethanediyl), alpha-(4-nonylphenyl) -omega-hydroxy-, branched 5% 6E-0 Polyoxyalkylenes Confidential 30% 0.047 Polssium chloride 7447-40-7 100% 1.4066 Propargyl alcohol 107-19-7 10% 0.0001 Quaternary ammonium compounds Confidential 10% 0.0107 Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide 68527-49-1 30% 0.0179 Sodium chloride 7647-14-5 30% 0.0179 Sodium pertorate tetrahydrate 10486-00-7 100% 0.0070 Terpene Confidential 10% 0.0107					67-63-0					0.03238%	
Naphthalene 91-20-3 5% 6E-0							60%			0.00066%	
Olefins Confidential 5% 0.0001				Naphthalene	91-20-3			5%		6E-05%	
Oxyalkylated phenolic resin Poly (axy-1,2-ethanediy), alpha-(4-nonylphenyl) - omega-hydroxy-, branched Polyoxyalkylenes Confidential 30% 0.0647 Potassium chloride 7447-40-7 100% 1.4066 Propargyl alcohol 107-19-7 10% 0.0001 Quaternary Confidential 10% 0.0107 ammonium compounds Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide Sodium chloride 7647-14-5 30% 0.0179 Sodium perborate tetrahydrate Terpene Confidential 10% 0.0107 0.0070 0.										24.20079%	
Poly (oxy-1,2-ethanediyl), alpha-(4-nonylphenyl) -omega-hydroxy-, branched				Oxyalkylated						0.00013%	
(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl) -omega-hydroxy-, branched 30% 0.0647* Polyoxyalkylenes Confidential 30% 0.0647* Potassium chloride 7447-40-7 100% 1.4066* Propargyl alcohol 107-19-7 10% 0.0001 Quaternary ammonium compounds Confidential 10% 0.0107* Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide 68527-49-1 30% 0.0003* Sodium chloride 7647-14-5 30% 0.0179* Sodium perborate tetrahydrate 10486-00-7 100% 0.0070* Terpene Confidential 10% 0.0107*					127007 07 0			FA		er ore	
Polyoxyalkylenes Confidential 30% 0.0647.				(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl) -omega-hydroxy-,	100000000000000000000000000000000000000			5%		0E-05%	
Potassium chloride								300%	30% 0.06		
Quaternary ammonium compounds Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide Sodium chloride Sodium perborate tetrahydrate Terpene Confidential 10% 0.01076 0.010				Potassium chloride	7447-40-7			100%		1.40663%	
ammonium compounds Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide Sodium chloride 7647-14-5 30% 0.0179 Sodium perborate tetrahydrate Terpene Confidential 10% 0.01078										0.00011%	
Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide Sodium chloride 7647-14-5 30% 0.0179				ammonium	Confidential			10%		0.01079%	
Sodium chloride 7647-14-5 30% 0.0179 Sodium perborate tetrahydrate 10486-00-7 100% 0.0070 Terpene Confidential 10% 0.01070				Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl	68527-49-1			30%		0.00033%	
Sodium perborate 10486-00-7 100% 0.0070					7647 44 5		1	2007		0.047000	
Terpene Confidential 10% 0.0107				Sodium perborate						0.01798%	
				tetrahydrate	200000000000000000000000000000000000000			4551		17.00	
I Water 17/32-16-0 1 100%1 1.4959				Water	7732-18-5		10%				

E-mail Address: toya.colvin@bp.com

NMOCD does not require the reporting of information beyond MSDS data as described in 29 CFR 1910.1200. NMOCD does not require the reporting or disclosure of proprietary, trade secret or confidential business information.

Title: Regulatory Analyst

20. I, as Operator, hereby certify that the information shown on this disclosure form is true and complete to the best of my knowledge and belief.

Signature: Signed Electronically Printed Name: Toya Colvin

6/6/2016

Date: