

Submit within 45 days of well completion	State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505	Revised February 15, 2012							
		1. WELL API NO: 30-045-11187							
		2. Well Name: MUDGE LS #024							
		3. Well Number: 024							
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:A Lot:A Section:33 Township:32N Range:11W Feet from:790 N/S Line:N Feet from:790 E/W Line:E							
		5. Bottom Hole Location: Unit:A Lot:A Section:33 Township:32N Range:11W Feet from:790 N/S Line:N Feet from:790 E/W Line:E							
		6. latitude: longitude: 36.9463458403689 - 107.988418831866							
		7. County: San Juan							
8. Operator Name and Address: BP AMERICA PRODUCTION COMPANY 501 Westlake Park Blvd. Houston 77079			9. OGRID: 778		10. Phone Number: 281-366-7148				
11. Last Fracture Date: 2/22/2013 Frac Performed by: Halliburton			12. Production Type: G						
13. Pool Code(s): 97232			14. Gross Fractured Interval: 6,525 ft to 6,600 ft						
15. True Vertical Depth (TVD): 7,537 ft			16. Total Volume of Fluid Pumped: 993 bbls						
17. HYDRAULIC FLUID COMPOSITION AND CONCENTRATION:									
Trade Name	Supplier	Purpose	Ingredients	(CAS #) Chemical Abstract Service #	Maximum Ingredient Concentration in Additive (% by mass)	Maximum Ingredient Concentration in HF Fluid (% by mass)			
2% KCL Water	Operator	Base fluid for External Phase of Foam	Water	7732-18-5	100%	16.63353%			
			KCl	7447-40-7	2%	0.33267%			
HYDROCHLORIC ACID 10-30%	Halliburton	Solvent	Hydrochloric acid	7647-01-0	30%	0.06461%			
SAND - PREMIUM WHITE	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	2.96826%			
HAI-OS ACID INHIBITOR	Halliburton	Corrosion Inhibitor	Methanol	67-56-1	60%	0.00388%			
			Propargyl alcohol	107-19-7	10%	0.00065%			
LoSurf-300D	Halliburton	Non-ionic Surfactant	1,2,4 Trimethylbenzene	95-63-6	0%	7E-05%			
			Ethanol	64-17-5	60%	0.00432%			
			Heavy aromatic petroleum naphtha	64742-94-5	30%	0.00216%			
			Naphthalene	91-20-3	5%	0.00036%			
			Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched	127087-87-0	5%	0.00036%			
LGC-36 UC	Halliburton	Liquid Gel Concentrate	Guar gum	9000-30-0	60%	0.05405%			
			Naphtha, hydrotreated heavy	64742-48-9	60%	0.05405%			
BC-200 UC	Halliburton	Crosslinker	Modified Alkane	Proprietary	60%	0.01522%			
BA-40L BUFFERING AGENT	Halliburton	Buffer	Potassium carbonate	584-08-7	60%	0.00179%			
CL-31 CROSSLINKER	Halliburton	Crosslinker	Potassium hydroxide	1310-58-3	5%	0.00013%			
			Potassium metaborate	13709-94-9	60%	0.00157%			
AQF-2 FOAMING AGENT	Halliburton	Foaming Agent	Ethylene glycol monobutyl ether	111-76-2	30%	0.02086%			
			Diethylene glycol	111-46-6	10%	0.00695%			
HYDROCHLORIC ACID	Halliburton	Solvent	Hydrochloric acid	7647-01-0	60%	0.12921%			
SP BREAKER	Halliburton	Breaker	Sodium persulfate	7775-27-1	100%	0.00144%			
OPTIFLO-III DELAYED RELEASE BREAKER	Halliburton	Breaker	Ammonium persulfate	7727-54-0	100%	0.00192%			
			Crystalline silica, quartz	14808-60-7	30%	0.00057%			
NITROGEN LIQUEFIED	Halliburton	Fluid	Nitrogen	7727-37-9	100%	79.75991%			
Ingredients Listed Below This Line Are Part of the			2-Ethyl hexanol	104-76-7	0%	0%			
			Alcohols, C14-C15, ethoxylated	68951-67-7	0%	0%			
			Alkyl Sulfonate	68439-57-6	0%	0%			
			Borate salts	1319-33-1	0%	0%			
			Butyl alcohol	71-36-3	0%	0%			
			Crystalline silica, quartz	14808-60-7	0%	0%			
			Cured Acrylic Resin	Mixture	0%	0%			
			Fatty acids, tall oil	61790-12-3	0%	0%			
			Fatty alcohol polyglycol ether surfactant	9043-30-5	0%	0%			
			Methanol	67-56-1	0%	0%			
			Olefins	71152	0%	0%			
			Olefins	629-73-2	0%	0%			
			Olefins	112-88-9	0%	0%			
			Olefins	1120-36-1	0%	0%			
			Organic salt	26264-06-2	0%	0%			
			Oxyalkylated Phenolic Resin	29316-47-0	0%	0%			
			Oxyalkylated Phenolic Resin	63428-92-2	0%	0%			
			Propylene carbonate	108-32-7	0%	0%			
			Propylene glycol	57-55-6	0%	0%			
			Quaternary ammonium compounds, bis (hydrogenated tallow alkyl) dimethyl, salts with bentonite	68953-58-2	0%	0%			
			Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide	68527-49-1	0%	0%			
			Sodium carbonate	497-19-8	0%	0%			
			Sodium sulfate	7757-82-6	0%	0%			
			Water	7732-18-5	0%	0%			
			18. 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 Title: Regulatory Analyst						
Date: 4/10/2013									
E-mail Address: toya.colvin@bp.com									
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