

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: 36.9463458403689 longitude: - 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: 1/8/2013 Frac Performed by: Halliburton				12. Production Type: G					
13. Pool Code(s): 97232				14. Gross Fractured Interval: 6,690 ft to 6,760 ft					
15. True Vertical Depth (TVD): 7,537 ft				16. Total Volume of Fluid Pumped: 882 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	2% KCL Water	7732-18-5 / 7447-40-7	100%	56.67778%			
FE ACID - >10% HCL	Halliburton	Acid	Hydrochloric acid	7647-01-0	30%	1.62837%			
SAND - PREMIUM WHITE	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	14.46841%			
AQF-2 FOAMING AGENT	Halliburton	Foaming Agent	Diethylene glycol Ethylene glycol monobutyl ether	111-46-6 111-76-2	10% 30%	0.02277% 0.06831%			
BC-200 UC	Halliburton	Crosslinker	Modified Alkane	Proprietary	60%	0.08031%			
LoSurf-300D	Halliburton	Non-ionic Surfactant	1,2,4 Trimethylbenzene	95-63-6	1%	0.00051%			
			Ethanol	64-17-5	60%	0.03031%			
			Heavy aromatic petroleum naphtha	64742-94-5	30%	0.01515%			
			Naphthalene	91-20-3	5%	0.00253%			
			Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched	127087-87-0	5%	0.00253%			
LGC-36 UC	Halliburton	Liquid Gel Concentrate	Guar gum Naphtha, hydrotreated heavy	9000-30-0 64742-48-9	60% 60%	0.15575% 0.15575%			
CL-31 CROSSLINKER	Halliburton	Crosslinker	Potassium hydroxide	1310-58-3	5%	0.0005%			
			Potassium metaborate	13709-94-9	60%	0.00594%			
CAT-3 ACTIVATOR	Halliburton	Activator	EDTA/Copper chelate	Proprietary	30%	0.00096%			
HYDROCHLORIC ACID	Halliburton	Solvent	Hydrochloric acid	7647-01-0	60%	0.41608%			
HAI-OS ACID INHIBITOR	Halliburton	Corrosion Inhibitor	Methanol Propargyl alcohol	67-56-1 107-19-7	60% 10%	0.00161% 0.00027%			
LoSurf-300D	Halliburton	Non-ionic Surfactant	1,2,4 Trimethylbenzene	95-63-6	1%	1E-05%			
			Ethanol	64-17-5	60%	0.00082%			
			Heavy aromatic petroleum naphtha	64742-94-5	30%	0.00041%			
			Naphthalene	91-20-3	5%	7E-05%			
			Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched	127087-87-0	5%	7E-05%			
SP BREAKER	Halliburton	Breaker	Sodium persulfate	7775-27-1	100%	0.00635%			
OPTIFLO-III DELAYED RELEASE BREAKER	Halliburton	Breaker	Ammonium persulfate	7727-54-0	100%	0.00944%			
			Crystalline silica, quartz	14808-60-7	30%	0.00283%			
NITROGEN LIQUEFIED	Halliburton	Fluid	Nitrogen	7727-37-9	100%	25.82739%			
Ingredients Listed Below This Line Are Part of the			2-Ethyl hexanol	104-76-7	0%	0%			
			Acetic acid	64-19-7	0%	0%			
			Acetic anhydride	108-24-7	0%	0%			
			Alcohols, C14-C15, ethoxylated	68951-67-7	0%	0%			
			Alkyl Sulfonate	Proprietary	0%	0%			
			Borate salts	Proprietary	0%	0%			
			Butyl alcohol	71-36-3	0%	0%			
			Citric acid	77-92-9	0%	0%			
			Crystalline silica, quartz	14808-60-7	0%	0%			
			Cured Acrylic Resin	Proprietary	0%	0%			
			Fatty acids, tall oil	Proprietary	0%	0%			
			Fatty alcohol polyglycol ether surfactant	9043-30-5	0%	0%			
			Methanol	67-56-1	0%	0%			
			Modified bentonite	Proprietary	0%	0%			
			Olefins	Proprietary	0%	0%			
			Olefins	Proprietary	0%	0%			
			Olefins	Proprietary	0%	0%			
			Olefins	Proprietary	0%	0%			
			Organic salt	Proprietary	0%	0%			
			Oxyalkylated Phenolic Resin	Proprietary	0%	0%			
			Oxyalkylated Phenolic Resin	Proprietary	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: 2/19/2013 _____						
			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.						