

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. 30-015-40033				
		2. Well Name: LEE FEDERAL #047				
		3. Well Number: 047				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:O Lot:O Section:20 Township:17S Range:31E Feet from:885 N/S Line:S Feet from:1740 E/W Line:E				
		5. Bottom Hole Location: Unit:O Lot:O Section:20 Township:17S Range:31E Feet from:885 N/S Line:S Feet from:1740 E/W Line:E				
		6. latitude: longitude: 32.8152413292633 - 103.888992337066				
		7. County: Eddy				
8. Operator Name and Address: APACHE CORP 303 Veterans Airpark Lane Suite 3000 Midland 79705				9. OGRID: 873	10. Phone Number: 432-818-1062	
11. Last Fracture Date: 8/28/2012 Frac Performed by: Baker Hughes				12. Production Type: O		
13. Pool Code(s): 96831				14. Gross Fractured Interval: 4,814 ft to 6,305 ft		
15. True Vertical Depth (TVD): 6,305 ft				16. Total Volume of Fluid Pumped: 11,135 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)
Water	Operator	Carrier	Water	7732-18-5	100%	83.51061%
HCl, 10.1 - 15%	Baker Hughes	Acidizing	Hydrochloric Acid	7647-01-0	15%	0.42001%
Superset-U, tote	Baker Hughes	Activator	Water	7732-18-5	85%	2.38005%
			Denatured Ethanol	64-17-5	45%	0.02216%
			Di (Ethylene Glycol) Ethyl Ether Acetate	112-15-2	55%	0.02708%
X-Cide 207	Baker Hughes	Biocide	2-Methyl-4-Isothiazolin-3-One	2682-20-4	5%	0.00017%
			5-Chloro-2-Methyl-4-Isothiazolin-3-One	26172-55-4	10%	0.00033%
			Crystalline Silica: Cristobalite	14464-46-1	1%	3E-05%
			Crystalline Silica: Quartz (SiO2)	14808-60-7	1%	3E-05%
			Diatomaceous Earth, Calcined	91053-39-3	60%	0.002%
			Magnesium Chloride	7786-30-3	5%	0.00017%
			Magnesium Nitrate	10377-60-3	10%	0.00033%
			Glutaraldehyde	111-30-8	30%	0.00809%
Alpha 125	Baker Hughes	Biocide				
GBW-5	Baker Hughes	Breaker	Ammonium Persulfate	7727-54-0	100%	0.00193%
GBW-15L	Baker Hughes	Breaker	Enzyme solution	Trade Secret	100%	0.04202%
ClayCare, tote	Baker Hughes	Clay Control	Choline Chloride	67-48-1	75%	0.03521%
			Water	7732-18-5	30%	0.01409%
CI-14	Baker Hughes	Corrosion Inhibitor	Fatty Acids	Trade Secret	10%	0.00064%
			Olefin	Trade Secret	5%	0.00032%
			Polyoxyalkylenes	Trade Secret	30%	0.00191%
			Propargyl Alcohol	107-19-7	5%	0.00032%
XLW-10A	Baker Hughes	Crosslinker	Ethylene Glycol	107-21-1	30%	0.03663%
			Sodium Hydroxide	1310-73-2	10%	0.01221%
			Sodium Tetraborate	1330-43-4	30%	0.03663%
GW-4LDF	Baker Hughes	Gelling Agent	Guar Gum	9000-30-0	60%	0.28567%
			Paraffinic Petroleum Distillate	64742-55-8	60%	0.28567%
			Petroleum Distillate	64742-47-8	60%	0.28567%
Ferotrol 280L	Baker Hughes	Iron Control	2-Mercaptoethanol	60-24-2	100%	0.01003%
			Ammonium Hydroxide	1336-21-6	5%	0.0005%
			Cupric Chloride	7447-39-4	5%	0.0005%
NE-35, 330 gl tote	Baker Hughes	Non-emulsifier	Mixture of Surfactants	Trade Secret	50%	0.04314%
Sand, White, 16/30	Baker Hughes	Proppant	Propylene Glycol	57-55-6	30%	0.02588%
			Crystalline Silica (Quartz)	14808-60-7	100%	9.85378%
Super LC, 16/30	Baker Hughes	Proppant	Hexamethylenetetramine	1009-7-0	0.01%	0.00025%
			P/F Resin	9003-35-4	5%	0.1233%
			Silicon Dioxide (Silica Sand)	14808-60-7	97%	2.39193%
InFlo 250G, 330 gl tote	Baker Hughes	Surfactant	Methanol	67-56-1	30%	0.02395%
			Mixture of Surfactants	Trade Secret	50%	0.03991%
			Water	7732-18-5	30%	0.02395%
Ingredients shown above are subject to 29 CFR 1910			Formaldehyde	50-00-0	0%	6.37E-05%
			Hydrochloric Acid	7647-01-0	0%	6.37E-05%
			Methanol	67-56-1	0%	0.0064335%
			Modified Thiorea Polymer	68527-49-1	0%	0.0004456%
			Water	7732-18-5	0%	0.0459104%
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: Fatima Vasquez		Title: Regulatory Tech		
Date: 10/17/2012						
E-mail Address: fatima.vasquez@apachecorp.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.