

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 November 6, 2013		
		1. WELL API NO: 30-015-40032				
		2. Well Name: LEE FEDERAL #045				
		3. Well Number: 045				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:H Lot:H Section:20 Township:17S Range:31E Feet from:1730 N/S Line:N Feet from:1000 E/W Line:E				
		5. Bottom Hole Location: Unit:H Lot:H Section:20 Township:17S Range:31E Feet from:1730 N/S Line:N Feet from:1000 E/W Line:E				
		6. Latitude: 32.8225484922683		Longitude: -103.886597161506		
		7. County: Eddy				
8. Operator Name and Address: APACHE CORP 303 Veterans Airpark Lane Suite 3000 Midland 79705		9. OGRID: 873		10. Phone Number: 432-818-1168		
11. Last Fracture Date: 6/18/2012 Frac Performed by: Baker Hughes		12. Production Type: O				
13. Pool Code(s): 96831		14. Gross Fractured Interval: 4,636 ft to 5,911 ft				
15. True Vertical Depth (TVD): 5,911 ft		16. Total Volume of Fluid Pumped: 327,474 gals				
17. Total Volume of Re-Use Water Pumped: N/A		18. Percent of Re-Use Water in Fluid Pumped: Not Disclosed				
19. 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%	83.91797%
HCl, 10.1 - 15%	Baker Hughes	Acidizing	Hydrochloric Acid	7647-01-0	15%	0.35655%
			Water	7732-18-5	85%	2.02045%
Superset-U, tote	Baker Hughes	Activator	Denatured Ethanol	64-17-5	45%	0.01753%
			Di (Ethylene Glycol) Ethyl Ether Acetate	112-15-2	55%	0.02142%
Alpha 125	Baker Hughes	Biocide	Glutaraldehyde	111-30-8	30%	0.00658%
GBW-5	Baker Hughes	Breaker	Ammonium Persulfate	7727-54-0	100%	0.00599%
GBW-15L	Baker Hughes	Breaker	Enzyme solution	Trade Secret	100%	0.0512%
ClayCare, tote	Baker Hughes	Clay Control	Choline Chloride	67-48-1	75%	0.03607%
			Water	7732-18-5	30%	0.01443%
Cl-14	Baker Hughes	Corrosion Inhibitor	Fatty Acids	61790-12-3	10%	0.00022%
			Methanol	67-56-1	100%	0.00223%
			Olefin	64743-02-8	5%	0.00011%
			Polyoxalkylenes	68951-67-7	30%	0.00067%
			Propargyl Alcohol	107-19-7	5%	0.00011%
XLW-10A	Baker Hughes	Crosslinker	Ethylene Glycol	107-21-1	30%	0.02837%
			Sodium Hydroxide	1310-73-2	10%	0.00946%
			Sodium Tetraborate	1330-43-4	30%	0.02837%
GW-4LDF	Baker Hughes	Gelling Agent	Guar Gum	9000-30-0	60%	0.30389%
			Paraffinic Petroleum Distillate	64742-55-8	60%	0.30389%
			Petroleum Distillate	64742-47-8	60%	0.30389%
Ferrotrol 280L	Baker Hughes	Iron Control	2-Mercaptoethanol	60-24-2	100%	0.00734%
			Ammonium Hydroxide	1336-21-6	5%	0.00037%
			Cupric Chloride	7447-39-4	5%	0.00037%
NE-35, 330 gl tote	Baker Hughes	Non-emulsifier	Mixture of Surfactants	Trade Secret	50%	0.0414%
			Propylene Glycol	57-55-6	30%	0.02484%
Sand, White, 16/30	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	10.15285%
Super LC, 16/30	Baker Hughes	Proppant	Hexamethylenetetramine	1009-7-0	0.01%	0.00022%
			P/F Resin	9003-35-4	5%	0.10772%
			Silicon Dioxide (Silica Sand)	14808-60-7	97%	2.08986%
ES-4A, Greenskeeper Solvent	Baker Hughes	Solvent	Petroleum Distillates Blend	Trade Secret	100%	0.02819%
InFlo 250G, 330 gl tote	Baker Hughes	Surfactant	Methanol	67-56-1	30%	0.02214%
			Mixture of Surfactants	Trade Secret	50%	0.0369%
			Water	7732-18-5	30%	0.02214%
Ingredients shown above are subject to 29 CFR 1910			Formaldehyde	50-00-0	0%	0%
			Hydrochloric Acid	7647-01-0	0%	0%
			Methanol	67-56-1	0%	5.48E-05%
			Modified Thiourea Polymer	68527-49-1	0%	0%
			Water	7732-18-5	0%	0.0362294%
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: Reesa R. Holland		Title: Sr Staff Reg Tech		
Date: 11/18/2013						
E-mail Address: reesa.holland@apachecorp.com						