

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					
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		1. WELL API NO: 30-015-40022					
		2. Well Name: WASHINGTON 33 STATE #045					
		3. Well Number: 045					
		4. Surface Hole Location: Unit:P Lot:P Section:33 Township:17S Range:28E Feet from:330 N/S Line:S Feet from:900 E/W Line:E					
		5. Bottom Hole Location: Unit:P Lot:P Section:33 Township:17S Range:28E Feet from:330 N/S Line:S Feet from:900 E/W Line:E					
		6. latitude: 32.7848811743728 longitude: -104.175309882977					
		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: 5/10/2012 Frac Performed by: Baker Hughes		12. Production Type: O					
13. Pool Code(s): 96830		14. Gross Fractured Interval: 3,762 ft to 4,636 ft					
15. True Vertical Depth (TVD): 4,636 ft		16. Total Volume of Fluid Pumped: 318,066 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%	83.72892%	
HCl, 10.1 - 15%	Baker Hughes	Acidizing	Hydrochloric Acid	7647-01-0	15%	0.41205%	
			Water	7732-18-5	85%	2.33496%	
Superset-U, tote	Baker Hughes	Activator	Denatured Ethanol	64-17-5	45%	0.02135%	
			Di (Ethylene Glycol) Ethyl Ether Acetate	112-15-2	55%	0.02609%	
Alpha 125	Baker Hughes	Biocide	Glutaraldehyde	111-30-8	30%	0.00709%	
GBW-5	Baker Hughes	Breaker	Ammonium Persulfate	7727-54-0	100%	0.00332%	
GBW-15L	Baker Hughes	Breaker	Enzyme solution	Trade Secret	100%	0.09234%	
ClayCare, tote	Baker Hughes	Clay Control	Choline Chloride	67-48-1	75%	0.03619%	
			Water	7732-18-5	30%	0.01447%	
CI-14	Baker Hughes	Corrosion Inhibitor	Fatty Acids	Trade Secret	10%	0.00043%	
			Olefin	Trade Secret	5%	0.00022%	
			Polyoxyalkylenes	Trade Secret	30%	0.0013%	
			Propargyl Alcohol	107-19-7	5%	0.00022%	
XLW-10A	Baker Hughes	Crosslinker	Ethylene Glycol	107-21-1	30%	0.03023%	
			Sodium Hydroxide	1310-73-2	10%	0.01008%	
			Sodium Tetraborate	1330-43-4	30%	0.03023%	
BioSealers MR	Baker Hughes	Degradable Sealers	Non-Hazardous Ingredient	Trade Secret	100%	0.00316%	
GW-4LDF	Baker Hughes	Gelling Agent	Guar Gum	9000-30-0	60%	0.32124%	
			Paraffinic Petroleum Distillate	64742-55-8	60%	0.32124%	
			Petroleum Distillate	64742-47-8	60%	0.32124%	
Ferrotrol 280L	Baker Hughes	Iron Control	2-Mercaptoethanol	60-24-2	100%	0.00812%	
			Ammonium Hydroxide	1336-21-6	5%	0.00041%	
			Cupric Chloride	7447-39-4	5%	0.00041%	
NE-945, tote	Baker Hughes	Non-emulsifier	Oxyalkylated alcohol	Trade Secret	5%	0.00418%	
Sand, White, 16/30	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	9.77164%	
Super LC, 16/30	Baker Hughes	Proppant	Hexamethylenetetramine	1009-7-0	0.01%	0.00022%	
			P/F Resin	9003-35-4	5%	0.11098%	
			Silicon Dioxide (Silica Sand)	14808-60-7	97%	2.15295%	
ScaleSorb 3, (50# bag)	Baker Hughes	Scale Inhibitor	Amino Alkyl Phosphonic Acid	Trade Secret	30%	0.00474%	
			Crystalline Silica: Quartz (SiO2)	14808-60-7	1%	0.00016%	
			Diatomaceous Earth, Calcined	91053-39-3	100%	0.01579%	
			Phosphonic Acid	13598-36-2	1%	0.00016%	
InFlo 250G, 330 gl tote	Baker Hughes	Surfactant	Methanol	67-56-1	30%	0.02448%	
			Mixture of Surfactants	Trade Secret	50%	0.0408%	
			Water	7732-18-5	30%	0.02448%	
Ingredients shown above are subject to 29 CFR 1910			Alkoxylated Amine	Trade Secret	0%	0.0083506%	
			Alkylene Oxide Block Polymer	Trade Secret	0%	0.0095197%	
			Antifoam	Trade Secret	0%	1.67E-05%	
			Formaldehyde	50-00-0	0%	4.35E-05%	
			Hydrochloric Acid	7647-01-0	0%	4.35E-05%	
			Methanol	67-56-1	0%	0.0044082%	
			Modified Thiorea Polymer	68527-49-1	0%	0.0003044%	
			Organic Sulfonic Acid	27176-87-0	0%	0.000167%	
			Polyglycol	25322-68-3	0%	0.0015866%	
			Polyquaternary Amine	Trade Secret	0%	0.0010021%	
			Water	7732-18-5	0%	0.0986837%	
	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							

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.