

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: 30-039-31193					
		2. Well Name: JICARILLA APACHE 102 #014M					
		3. Well Number: 014M					
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:N Lot:N Section:9 Township:26N Range:04W Feet from:1310 N/S Line:S Feet from:1482 E/W Line:W					
		5. Bottom Hole Location: Unit:N Lot:N Section:9 Township:26N Range:04W Feet from:1310 N/S Line:S Feet from:1482 E/W Line:W					
		6. Latitude: 36.4974663384908 longitude: - 107.260625890413					
		7. County: Rio Arriba					
8. Operator Name and Address: ENERVEST OPERATING L.L.C. 1001 Fannin Street Suite 800 Houston 77002		9. OGRID: 143199	10. Phone Number: 713-659-3500				
11. Last Fracture Date: 5/20/2014 Frac Performed by: Baker Hughes		12. Production Type: G					
13. Pool Code(s): 71599, 72319		14. Gross Fractured Interval: 5,570 ft to 8,278 ft					
15. True Vertical Depth (TVD): 8,278 ft		16. Total Volume of Fluid Pumped: 298,897 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%	75.86718%	
HCl, 10.1 - 15%	Baker Hughes	Acidizing	Hydrochloric Acid	7647-01-0	15%	0.17658%	
GBW-5	Baker Hughes	Breaker	Water	7732-18-5	85%	1.00063%	
			Ammonium persulphate	7727-54-0	100%	0.00091%	
Enzyme G-IV	Baker Hughes	Breaker	Contains non-hazardous ingredients which are listed in the non-MSDS section of the report	NA	0%	0%	
Enzyme G-VI	Baker Hughes	Breaker	Hemicellulase Enzyme Concentrate	9025-56-3	0.03%	1E-05%	
			Water	7732-18-5	99.98%	0.02436%	
High Perm CRB	Baker Hughes	Breaker	Ammonium Persulphate	7727-54-0	100%	0.00609%	
BF-7L	Baker Hughes	Buffer	Potassium Carbonate	584-08-7	60%	0.09688%	
ClayCare, tote	Baker Hughes	Clay Control	Choline Chloride	67-48-1	75%	0.03884%	
			Water	7732-18-5	30%	0.01554%	
CI-27	Baker Hughes	Corrosion Inhibitor	Fatty Acids	Trade Secret	30%	0.00108%	
			Methanol	67-56-1	60%	0.00217%	
			Olefin	Trade Secret	5%	0.00018%	
			Polyoxyalkylenes	Trade Secret	30%	0.00108%	
			Propargyl Alcohol	107-19-7	10%	0.00036%	
			Thiourea Polymer	68527-49-1	30%	0.00108%	
FAW-22	Baker Hughes	Foamer	Alkyl Sulfate (1 of 2)	Trade Secret	5%	0.00544%	
			Alkyl Sulfate (2 of 2)	Trade Secret	5%	0.00544%	
			Ammonium Alkyl Ether Sulfate	Trade Secret	10%	0.01088%	
			Isopropanol	67-63-0	30%	0.03264%	
			Sodium Sulfonate	68439-57-6	30%	0.03264%	
MaxPerm 20, tote	Baker Hughes	Friction Reducer	Petroleum Distillates	64742-47-8	30%	0.00048%	
GW-3LDF	Baker Hughes	Gelling Agent	1-butoxy-2-propanol	5131-66-8	5%	0.02195%	
			Crystalline Silica: Quartz	14808-60-7	5%	0.02195%	
			Guar Gum	9000-30-0	60%	0.26343%	
			Isotridecanol, ethoxylated	9043-30-5	5%	0.02195%	
			Paraffinic Petroleum Distillate	64742-55-8	30%	0.13171%	
			Petroleum Distillates	64742-47-8	30%	0.13171%	
Ferrotrol 300L	Baker Hughes	Iron Control	Citric Acid	77-92-9	60%	0.00384%	
Nitrogen	Baker Hughes	Nitrogen	Nitrogen	7727-37-9	100%	5.9623%	
Sand, Brown, 20/40	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	15.86726%	
GasFlo G, 330 gal tote	Baker Hughes	Surfactant	Methanol	67-56-1	30%	0.02088%	
			Oxyalkylated Alkylphenol (1)	Trade Secret	10%	0.00696%	
			Oxyalkylated Alkylphenol (2)	Trade Secret	10%	0.00696%	
			Oxyalkylated Amine	Trade Secret	5%	0.00348%	
			Polyoxyalkylene	Trade Secret	10%	0.00696%	
Ingredients shown above are subject to 29 CFR 1910			2-butoxy-1-propanol	15821-83-7	0%	0.000439%	
			Aliphatic Hydrocarbon	Trade Secret	0%	0.0003761%	
			Alkyl Sulfate	Trade Secret	0%	0.0010879%	
			Cured Resin	Trade Secret	0%	0.0014612%	
			Ethoxylated Alcohol	Trade Secret	0%	0.0010879%	
			Ethylene Glycol	107-21-1	0%	0.0010879%	
			Fatty Amide	70851-08-0	0%	0.0010879%	
			Derivative		0%		
			Formaldehyde	50-00-0	0%	0.0010897%	
			Hemicellulase Enzyme Concentrate	9025-56-3	0%	4.6E-06%	
			Oxyalkylated Alcohol	Trade Secret	0%	3.23E-05%	
			Polyglycol Ester	Trade Secret	0%	1.45E-05%	
			Polyol Ester	Trade Secret	0%	1.78E-05%	
			Potassium Hydroxide	1310-58-3	0%	0.0016147%	
			Sodium Chloride	7647-14-5	0%	0.0011705%	
			Sodium Sulfate	7757-82-6	0%	0.0010879%	
			Vinyl Copolymer	Trade Secret	0%	0.000452%	
			Water	7732-18-5	0%	0.1960541%	
	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: Bart Trevino Title: _____						
Date: 6/9/2014 _____							
E-mail Address: btrevino@enervest.net _____							

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.