

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. 30-039-30036				
		2. Well Name: JICARILLA APACHE 102 #013M				
		3. Well Number: 013M				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:J Lot:J Section:10 Township:26N Range:04W Feet from:1970 N/S Line:S Feet from:2100 E/W Line:E				
		5. Bottom Hole Location: Unit:J Lot:J Section:10 Township:26N Range:04W Feet from:1970 N/S Line:S Feet from:2100 E/W Line:E				
		6. Latitude: longitude: 36.4991559801688 - 107.237167594459				
		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: 8/3/2012 Frac Performed by: Baker Hughes				12. Production Type: G		
13. Pool Code(s): 71599, 72319				14. Gross Fractured Interval: 5,672 ft to 7,828 ft		
15. True Vertical Depth (TVD): 7,828 ft				16. Total Volume of Fluid Pumped: 1,272 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%	50.73382%
HCl, 10.1 - 15%	Baker Hughes	Acidizing	Hydrochloric Acid	7647-01-0	15%	0.24773%
			Water	7732-18-5	85%	1.40378%
Alpha 452	Baker Hughes	Biocide	Tetrakis (hydroxymethyl) Phosphonium Sulfate	55566-30-8	60%	0.0669%
GBW-5	Baker Hughes	Breaker	Ammonium Persulfate	7727-54-0	100%	0.00456%
CorrSorb 3500	Baker Hughes	Corrosion Inhibitor	Acid Phosphate Ester	Trade Secret	10%	0.00968%
			Crystalline Silica: Quartz (SiO2)	14808-60-7	1%	0.00097%
			Diatomaceous Earth, Calcined	91053-39-3	100%	0.0968%
			Ethanol	64-17-5	5%	0.00484%
			Quaternary Ammonium Compound	Trade Secret	30%	0.02904%
CI-27	Baker Hughes	Corrosion Inhibitor	Fatty Acids	Trade Secret	30%	0.00152%
			Methanol	67-56-1	60%	0.00305%
			Olefin	Trade Secret	5%	0.00025%
			Polyoxyalkylenes	Trade Secret	30%	0.00152%
BioSealers MR	Baker Hughes	Degradable Sealers	Non-Hazardous Ingredient	Trade Secret	100%	0.00592%
FRW-20	Baker Hughes	Friction Reducer	Petroleum Distillates	64742-47-8	30%	0.00846%
Ferrotrol 300L	Baker Hughes	Iron Control	Citric Acid	77-92-9	60%	0.00431%
Nitrogen	Baker Hughes	Nitrogen	Liquid Nitrogen	7727-37-9	100%	21.30744%
Sand, Brown, 20/40	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	25.77508%
ScaleSorb 3, (25# pail)	Baker Hughes	Scale Inhibitor	Amino Alkyl Phosphonic Acid	Trade Secret	30%	0.02904%
			Crystalline Silica: Quartz (SiO2)	14808-60-7	1%	0.00097%
			Diatomaceous Earth, Calcined	91053-39-3	100%	0.0968%
			Phosphonic Acid	13598-36-2	1%	0.00097%
GasFlo G, 330 gal tote	Baker Hughes	Surfactant	Methanol	67-56-1	30%	0.01241%
			Mixture of Surfactants	Trade Secret	60%	0.02482%
			Water	7732-18-5	50%	0.02068%
Non-MSDS Ingredients			Aliphatic Hydrocarbon	Trade Secret	0%	0.0065667%
			Formaldehyde	50-00-0	0%	8.11E-05%
			Modified Thiourea Polymer	68527-49-1	0%	0.0005584%
			Oxyalkylated Alcohol	Trade Secret	0%	0.0005637%
			Polyglycol Ester	Trade Secret	0%	0.0002537%
			Polyol Ester	Trade Secret	0%	0.00031%
			Sodium Aryl Sulfonate	119345-04-9	0%	0.001115%
			Sodium Chloride	7647-14-5	0%	0.0012085%
			Sodium Sulfate	7757-82-6	0%	5.57E-05%
			Thioglycolic Acid	68-11-1	0%	0.0001936%
			Vinyl Copolymer	Trade Secret	0%	0.0078913%
			Water	7732-18-5	0%	0.0893423%
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: Ronnie Young Title: Compliance Supervisor						
Date: 8/23/2012						
E-mail Address: ryoung@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.