

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: 30-039-23187				
		2. Well Name: JICARILLA TRIBAL 396 #004				
		3. Well Number: 004				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:A Lot:Z00 Section:17 Township:23N Range:03W Feet from:910 N/S Line:N Feet from:790 E/W Line:E				
		5. Bottom Hole Location: Unit:A Lot:Z00 Section:17 Township:23N Range:03W Feet from:910 N/S Line:N Feet from:790 E/W Line:E				
		6. Latitude: 36.2280182 Longitude: -107.173095				
		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: 6/25/2012 Frac Performed by: Baker Hughes		12. Production Type: O				
13. Pool Code(s): 39189		14. Gross Fractured Interval: 7,105 ft to 7,354 ft				
15. True Vertical Depth (TVD): 7,354 ft		16. Total Volume of Fluid Pumped: 90,199 gals				
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%	90.67905%
Alpha 452	Baker Hughes	Biocide	Tetrakis (hydroxymethyl) Phosphonium Sulfate	55566-30-8	60%	0.0425%
Magnacide 575	Baker Hughes	Biocide	Tetrakis (Hydroxymethyl) Phosphonium Sulfate	55566-30-8	100%	0.01106%
GBW-5	Baker Hughes	Breaker	Ammonium Persulfate	7727-54-0	100%	0.01567%
Enzyme G-I	Baker Hughes	Breaker	Contains non-hazardous ingredients which are listed in in the non-MSDS section of the report	NA	100%	0.05328%
High Perm CRB	Baker Hughes	Breaker	Ammonium Persulfate	7727-54-0	60%	0.0094%
			Crystalline Silica Quartz	14808-60-7	30%	0.0047%
BF-7L	Baker Hughes	Buffer	Potassium Carbonate	584-08-7	60%	0.34434%
			Potassium Hydroxide	1310-58-3	1%	0.00574%
CorrSorb 3500	Baker Hughes	Corrosion Inhibitor	Water	7732-18-5	60%	0.34434%
			Acid Phosphate Ester	Trade Secret	10%	0.00362%
			Crystalline Silica: Quartz (SiO2)	14808-60-7	1%	0.00036%
			Diatomaceous Earth, Calcined	91053-39-3	100%	0.03617%
			Ethanol	64-17-5	5%	0.00181%
			Quaternary Ammonium Compound	Trade Secret	30%	0.01085%
XLW-32	Baker Hughes	Crosslinker	Boric Acid (H3BO3)	10043-35-3	30%	0.02403%
			Methanol	67-56-1	60%	0.04807%
			Methyl Borate	121-43-7	30%	0.02403%
			1-Butoxy-2-Propanol	5131-66-8	5%	0.02515%
GW-3LDF	Baker Hughes	Gelling Agent	Crystalline Silica, Quartz (SiO2)	14808-60-7	5%	0.02515%
			Guar Gum	9000-30-0	60%	0.30186%
			Isotridecanol, ethoxylated	9043-30-5	5%	0.02515%
			Paraffinic Petroleum Distillate	64742-55-8	30%	0.15093%
			Petroleum Distillates	64742-47-8	30%	0.15093%
			NE-900, drum	Baker Hughes	Non-emulsifier	Methanol
			Nonyl Phenyl Polyethylene Glycol Ether	9016-45-9	10%	0.00822%
Sand, Brown, 20/40	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	7.25506%
ScaleSorb 3, (25# pail)	Baker Hughes	Scale Inhibitor	Amino Alkyl Phosphonic Acid	Trade Secret	30%	0.00723%
			Crystalline Silica: Quartz (SiO2)	14808-60-7	1%	0.00024%
			Diatomaceous Earth, Calcined	91053-39-3	100%	0.02411%
			Phosphonic Acid	13598-36-2	1%	0.00024%
ScaleSorb 3, (50# bag)	Baker Hughes	Scale Inhibitor	Amino Alkyl Phosphonic Acid	Trade Secret	30%	0.00362%
			Crystalline Silica: Quartz (SiO2)	14808-60-7	1%	0.00012%
			Diatomaceous Earth, Calcined	91053-39-3	100%	0.01206%
			Phosphonic Acid	13598-36-2	1%	0.00012%
GasFlo G, 330 gal tote	Baker Hughes	Surfactant	Methanol	67-56-1	30%	0.02538%
			Mixture of Surfactants	Trade Secret	60%	0.05076%
			Water	7732-18-5	50%	0.0423%
Non-MSDS Ingredients			2-Butoxy-1-Propanol	15821-83-7	0%	0.0004025%
			Copolymer	Trade Secret	0%	0.0328878%
			Cured Acrylic Resin	Trade Secret	0%	0.0047024%
			Formaldehyde	50-00-0	0%	4.43E-05%
			Hemicellulase Enzyme Concentrate	9025-56-3	0%	0.0015985%
			Sodium Aryl Sulfonate	119345-04-9	0%	0.0007083%
			Sodium Chloride	7647-14-5	0%	3.54E-05%
			Sodium Sulfate	7757-82-6	0%	3.54E-05%
			Thioglycolic Acid	68-11-1	0%	7.23E-05%
			Water	7732-18-5	0%	0.1671651%
			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: Regulatory Director			
Date: 11/6/2013						
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.