

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: 30-039-31166				
		2. Well Name: JICARILLA A #002F				
		3. Well Number: 002F				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:H Lot:H Section:18 Township:26N Range:05W Feet from:1850 N/S Line:N Feet from:1045 E/W Line:E				
		5. Bottom Hole Location: Unit:H Lot:H Section:18 Township:26N Range:05W Feet from:1850 N/S Line:N Feet from:1045 E/W Line:E				
		6. Latitude: 0 longitude: 0				
		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: 8/28/2013 Frac Performed by: Baker Hughes		12. Production Type: G				
13. Pool Code(s): 71599, 72319		14. Gross Fractured Interval: 4,910 ft to 7,599 ft				
15. True Vertical Depth (TVD): 7,772 ft		16. Total Volume of Fluid Pumped: 415,451 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%	79.88005%
Sand, Brown, 20/40	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	11.91864%
Nitrogen	Baker Hughes	Nitrogen	Liquid Nitrogen	7727-37-9	100%	5.26174%
Super LC, 20/40	Baker Hughes	Proppant	Silicon Dioxide (Silica Sand)	14808-60-7	97%	1.59913%
			P/F Resin	9003-35-4	5%	0.08243%
			Hexamethylenetetramine	100-97-0	0.01%	0.00016%
HCl, 10.1 - 15%	Baker Hughes	Acidizing	Water	7732-18-5	85%	0.66323%
			Hydrochloric Acid	7647-01-0	15%	0.11704%
GW-3LDF	Baker Hughes	Gelling Agent	Guar Gum	9000-30-0	60%	0.04793%
			Paraffinic Petroleum Distillate	64742-55-8	30%	0.02397%
			Petroleum Distillates	64742-47-8	30%	0.02397%
			1-butoxy-2-propanol	5131-66-8	5%	0.00399%
			Isotridecanol, ethoxylated	9043-30-5	5%	0.00399%
FAW-22, 260 gal. tote	Baker Hughes	Foamer	Crystalline Silica: Quartz	14808-60-7	5%	0.00399%
			Isopropanol	67-63-0	30%	0.03199%
			Sodium Sulfonate	68439-57-6	30%	0.03199%
			Ammonium Alkyl Ether Sulfate	Trade Secret	10%	0.01066%
			Alkyl Sulfate (3 of 3)	Trade Secret	1%	0.00107%
			Alkyl Sulfate (1 of 3)	Trade Secret	1%	0.00107%
			Alkyl Sulfate (2 of 3)	Trade Secret	1%	0.00107%
GasFlo G, 330 gal tote	Baker Hughes	Surfactant	Methanol	67-56-1	30%	0.02697%
			Polyoxyalkylene	Trade Secret	10%	0.00899%
			Oxyalkylated Alkylphenol (1)	Trade Secret	10%	0.00899%
			Oxyalkylated Alkylphenol (2)	Trade Secret	10%	0.00899%
			Oxyalkylated Amine	Trade Secret	3%	0.0027%
MaxPerm-20A, 265 gal tote	Baker Hughes	Friction Reducer	Polyacrylate	Trade Secret	60%	0.01544%
			Petroleum Distillates	64742-47-8	30%	0.00772%
			Oxyalkylated Alcohol	Trade Secret	5%	0.00129%
			Sodium Chloride	7647-14-5	3%	0.00077%
Alpha 1427	Baker Hughes	Biocide	Glutaraldehyde	111-30-8	30%	0.01301%
			Didecyl Dimethyl Ammonium Chloride	7173-51-5	10%	0.00434%
			Ethanol	64-17-5	5%	0.00217%
			Quaternary Ammonium Compound	68424-85-1	5%	0.00217%
Superset-@, 55 gal drum	Baker Hughes	Activator	Methanol	67-56-1	50%	0.00674%
			Poly (Oxyethylene)	9016-45-9	50%	0.00674%
			Nonylphenol Ether			
GBW-5	Baker Hughes	Breaker	Ammonium Phosphate	7727-54-0	100%	0.00669%
BioSealers MR	Baker Hughes	Degradable Sealers	Non-Hazardous Ingredient	Trade Secret	100%	0.00491%
CI-27	Baker Hughes	Corrosion Inhibitor	Methanol	67-56-1	60%	0.00123%
			Polyoxyalkylenes	Trade Secret	30%	0.00062%
			Fatty Acids	Trade Secret	30%	0.00062%
			Thiourea Polymer	68527-49-1	30%	0.00062%
			Propargyl Alcohol	107-19-7	10%	0.00021%
			Olefin	Trade Secret	5%	0.0001%
Ferrotrol 300L	Baker Hughes	Iron Control	Citric Acid	77-92-9	60%	0.00262%
Enzyme G-IV	Baker Hughes	Breaker	Contains non-hazardous ingredients listed in Non-MSDS section		0%	0%
Non-MSDS Ingredients			Water	7732-18-5	0%	0.14919%
			Sodium Chloride	7647-14-5	0%	0.00108%
			Formaldehyde	50-00-0	0%	0.00107%
			Ethylene Glycol	107-21-1	0%	0.00107%
			Ethoxylated Alcohol	Trade Secret	0%	0.00107%
			Sodium Sulfate	7757-82-6	0%	0.00107%
			Fatty Amide Derivative	70851-08-0	0%	0.00107%
			Polysorbate	9005-65-6	0%	0.00077%
			Oleate Ester	1338-43-8	0%	0.00077%
			2-butoxy-1-propanol	15821-83-7	0%	8E-05%
			Hemicellulase Enzyme Concentrate	9025-56-3	0%	1E-05%
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: 9/26/2013						
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.