

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. 30-039-31025				
		2. Well Name: JICARILLA 97 #006M				
		3. Well Number: 006M				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:L Lot:L Section:7 Township:26N Range:03W Feet from:2425 N/S Line:S Feet from:680 E/W Line:W				
		5. Bottom Hole Location: Unit:L Lot:L Section:7 Township:26N Range:03W Feet from:2425 N/S Line:S Feet from:680 E/W Line:W				
		6. Iatititude: 0 longitude: 0				
		7. County: Rio Arriba				
8. Operator Name and Address: ENERGEN RESOURCES CORPORATION 2010 Afton Place Farmington 87401		9. OGRID:	162928	10. Phone Number:	505-324-4154	
11. Last Fracture Date: 2/2/2012 Frac Performed by: Halliburton		12. Production Type: G				
13. Pool Code(s): 72319		14. Gross Fractured Interval: 5,780 ft to 5,860 ft				
15. True Vertical Depth (TVD): 8,060 ft		16. Total Volume of Fluid Pumped: 107,882 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)
2% KCL Water	Operator				100%	86.51067%
SAND - PREMIUM WHITE	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	5.23187%
SSA-2	Halliburton	Sand	Crystalline silica, quartz	14808-60-7	100%	0.47562%
AQF-2 FOAMING AGENT	Halliburton	Foamer	Diethylene glycol	111-46-6	10%	0.00699%
			Ethylene glycol monobutyl ether	111-76-2	30%	0.02098%
BA-40L BUFFERING AGENT	Halliburton	Buffer	Potassium carbonate	584-08-7	60%	0.00427%
BC-140	Halliburton	Crosslinker	Ethylene glycol	107-21-1	30%	0.00771%
			Monoethanolamine borate	26038-87-9	60%	0.01541%
SUPERFLO II SURFACTANT	Halliburton	Surfactant	Acetic acid	64-19-7	10%	0.00153%
			Ethylene glycol	107-21-1	30%	0.00458%
LGC-36 UC	Halliburton	Gelling Agent	Guar gum	9000-30-0	60%	0.06663%
			Naphtha, hydrotreated heavy	64742-48-9	60%	0.06663%
FE-1A ACIDIZING COMPOSITION	Halliburton	Misc Additive	Acetic acid	64-19-7	60%	0.00512%
			Acetic anhydride	108-24-7	100%	0.00853%
FE-2A	Halliburton	Misc Additive	Citric acid	77-92-9	60%	0.0059%
HAI-404M™	Halliburton	Corrosion Inhibitor	1-(Benzyl) quinolinium chloride	15619-48-4	10%	8E-05%
			Aldehyde	Confidential Business Information	30%	0.00023%
			Isopropanol	67-63-0	30%	0.00023%
			Methanol	67-56-1	30%	0.00023%
GasPerm 1100	Halliburton	Non-ionic Surfactant	Ethanol	64-17-5	60%	0.00223%
			Terpenes and Terpenoids, sweet orange-oil	68647-72-3	5%	0.00019%
FR-66	Halliburton	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8	30%	0.0189%
SuperFlo 2000	Halliburton	Surfactant	Methanol	67-56-1	100%	0.02825%
GBW-30 BREAKER	Halliburton	Breaker	Hemicellulase enzyme	9012-54-8	15%	0.00023%
			Carbohydrates	Confidential Business Information	95%	0.00145%
OPTIFLO-HTE	Halliburton	Breaker	Crystalline silica, quartz	14808-60-7	30%	0.00077%
			Walnut hulls	Mixture	100%	0.00257%
BE-6 MICROBIOCIDE	Halliburton	Biocide	2-Bromo-2-nitro-1,3-propanediol	52-51-7	100%	0.00171%
OptiKleen-WF™	Halliburton	Surfactant	Sodium perborate tetrahydrate	10486-00-7	100%	0.00647%
NITROGEN LIQUEFIED	Halliburton	Misc Additive	Nitrogen	7727-37-9	100%	7.42641%
					0%	0%
					0%	0%
					0%	0%
					0%	0%
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: Anna Stotts Title: Regulatory Analyst						
Date: 11/22/2013						
E-mail Address: astotts@energen.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.