

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: 30-039-27438						
		2. Well Name: JICARILLA 94 #001B						
		3. Well Number: 001B						
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:H Lot:H Section:22 Township:27N Range:03W Feet from:1600 N/S Line:N Feet from:660 E/W Line:E						
		5. Bottom Hole Location: Unit:H Lot:H Section:22 Township:27N Range:03W Feet from:1600 N/S Line:N Feet from:660 E/W Line:E						
		6. Latitude: longitude: 36.5617561700127 - 107.125374997858						
		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: 5/22/2013 Frac Performed by: Halliburton		12. Production Type: G						
13. Pool Code(s): 77360		14. Gross Fractured Interval: 3,937 ft to 3,966 ft						
15. True Vertical Depth (TVD): 6,553 ft		16. Total Volume of Fluid Pumped: 600 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)		
2% KCL Water	Operator				100%	52.62675%		
HYDROCHLORIC ACID 10-30%	Halliburton		Hydrochloric acid	7647-01-0	30%	0.66537%		
SAND - COMMON WHITE	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	1.23767%		
SAND - PREMIUM WHITE	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	27.22877%		
LGC-36 UC	Halliburton	Liquid Gel Concentrate	Guar gum	9000-30-0	60%	0.14113%		
			Naphtha, hydrotreated heavy	64742-48-9	60%	0.14113%		
BC-140	Halliburton	Crosslinker	Ethylene glycol	107-21-1	30%	0.01634%		
			Monoethanolamine borate	26038-87-9	60%	0.03267%		
AQF-2 FOAMING AGENT	Halliburton	Foaming Agent	Ethylene glycol monobutyl ether	111-76-2	30%	0.04689%		
			Diethylene glycol	111-46-6	10%	0.01563%		
GasPerm 1100	Halliburton	Non-ionic Surfactant	Ethanol	64-17-5	60%	0.04761%		
			Methanol	67-56-1	10%	0.00793%		
			Terpenes and Terpenoids, sweet orange-oil	68647-72-3	5%	0.00397%		
HAI-OS ACID INHIBITOR	Halliburton	Corrosion Inhibitor	Methanol	67-56-1	60%	0.00055%		
			Propargyl alcohol	107-19-7	10%	9E-05%		
GBW-30 BREAKER	Halliburton	Breaker	Hemicellulase enzyme	9012-54-8	15%	0.00056%		
			Carbohydrates	Confidential Business Information	95%	0.00353%		
OPTIFLO-HTE	Halliburton	Breaker	Crystalline silica, quartz	14808-60-7	30%	0.00186%		
			Walnut hulls	Mixture	100%	0.00619%		
Nitrogen	Halliburton				100%	16.15276%		
Ingredients Listed Below This Line Are Part of the			Alcohols, C14-C15, ethoxylated	68951-67-7	0%	0%		
			Alkyl Sulfonate	68439-57-6	0%	0%		
			C.I. Pigment Red 5	6410-41-9	0%	0%		
			Crystalline silica, quartz	14808-60-7	0%	0%		
			Cured Acrylic Resin	Mixture	0%	0%		
			Cured Acrylic Resin	9002-98-6	0%	0%		
			Enzyme	9025-56-3	0%	0%		
			Ethoxylated Fatty Acid	61791-12-6	0%	0%		
			Ethoxylated Fatty Acid	61791-29-5	0%	0%		
			Ethoxylated Fatty Acid	61791-08-0	0%	0%		
			Fatty acids, tall oil	61790-12-3	0%	0%		
			Fatty alcohol polyglycol ether surfactant	9043-30-5	0%	0%		
			Methyl Isobutyl Ketone	108-10-1	0%	0%		
			Olefins	3452-07-1	0%	0%		
			Olefins	629-73-2	0%	0%		
			Olefins	112-88-9	0%	0%		
			Olefins	1120-36-1	0%	0%		
			Quaternary ammonium compounds, bis (hydrogenated tallow alkyl) dimethyl salts with bentonite	68953-58-2	0%	0%		
			Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide	68527-49-1	0%	0%		
			Terpenes and Terpenoids	68956-56-9	0%	0%		
			Water	7732-18-5	0%	0%		
			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: Anna Stotts Title: Regulatory Analyst					
			Date: 6/3/2013					
			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.