

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: 30-039-27413						
		2. Well Name: JICARILLA 94 #002C						
		3. Well Number: 002C						
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:F Lot:F Section:27 Township:27N Range:03W Feet from:1600 N/S Line:N Feet from:1980 E/W Line:W						
		5. Bottom Hole Location: Unit:F Lot:F Section:27 Township:27N Range:03W Feet from:1600 N/S Line:N Feet from:1980 E/W Line:W						
		6. Latitude: 36.5472311448457 Longitude: - 107.134330711354						
		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: 3/20/2013 Frac Performed by: HALLIBURTON		12. Production Type: G						
13. Pool Code(s): 77360		14. Gross Fractured Interval: 4,135 ft to 4,170 ft						
15. True Vertical Depth (TVD): 6,702 ft		16. Total Volume of Fluid Pumped: 27,400 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)		
2% KCL Water	Operator				100%	53.72588%		
FE ACID - >10% HCL	Halliburton		Hydrochloric acid	7647-01-0	30%	0.62104%		
SAND - PREMIUM WHITE	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	24.4461%		
HAI-OS ACID INHIBITOR	Halliburton	Corrosion Inhibitor	Methanol	67-56-1	60%	0.00103%		
SuperFlo 2000	Halliburton	Surfactant	Propargyl alcohol	107-19-7	10%	0.00017%		
			Methanol	67-56-1	10%	0.0023%		
			Terpene	Confidential Business Information	30%	0.00691%		
LGC-36 UC	Halliburton	Liquid Gel Concentrate	Guar gum	9000-30-0	60%	0.11241%		
			Naphtha, hydrotreated heavy	64742-48-9	60%	0.11241%		
AQF-2 FOAMING AGENT	Halliburton	Foaming Agent	Ethylene glycol monobutyl ether	111-76-2	30%	0.03561%		
			Diethylene glycol	111-46-6	10%	0.01187%		
BC-140	Halliburton	Crosslinker	Ethylene glycol	107-21-1	30%	0.02163%		
			Monoethanolamine borate	26038-87-9	60%	0.04326%		
HAI-OS ACID INHIBITOR	Halliburton	Corrosion Inhibitor	Methanol	67-56-1	60%	0.00103%		
GasPerm 1100	Halliburton	Non-ionic Surfactant	Propargyl alcohol	107-19-7	10%	0.00017%		
			Ethanol	64-17-5	60%	0.00546%		
			Methanol	67-56-1	10%	0.00091%		
			Terpenes and Terpenoids, sweet orange-oil	68647-72-3	5%	0.00045%		
GBW-30 BREAKER	Halliburton	Breaker	Hemicellulase enzyme	9012-54-8	15%	0.00105%		
			Carbohydrates	Confidential Business Information	95%	0.00663%		
OPTIFLO-HTE	Halliburton	Breaker	Crystalline silica, quartz	14808-60-7	30%	0.00209%		
			Walnut hulls	Mixture	100%	0.00698%		
Nitrogen	Halliburton				100%	19.33022%		
Ingredients Listed Below This Line Are Part of the			Acetic acid	64-19-7	0%	0%		
			Acetic anhydride	108-24-7	0%	0%		
			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%		
			Citric acid	77-92-9	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%		
			Isopropanol	67-63-0	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%		
			Proprietary	106-24-1	0%	0%		
			Proprietary	106-25-2	0%	0%		
			Proprietary	68603-42-9	0%	0%		
			Proprietary	106-22-9	0%	0%		
			Proprietary	78-70-6	0%	0%		
			Proprietary	9063-06-3	0%	0%		
			Proprietary	26027-38-3	0%	0%		
			Proprietary	9004-99-3	0%	0%		
			Proprietary	68391-01-5	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: 8/29/2013					
			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.					