

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				
HYDRAULIC FRACTURING FLUID DISCLOSURE <input checked="" type="checkbox"/> Original <input type="checkbox"/> Amendment		1. WELL API NO: 30-045-35646 2. Well Name: CHACO 23 08 03 #002H 3. Well Number: 002H 4. Surface Hole Location: Unit:H Lot:H Section:3 Township:23N Range:08W Feet from:2057 N/S Line:N Feet from:187 E/W Line:E 5. Bottom Hole Location: Unit:E Lot: Section:3 Township:23N Range:08W Feet from:2260 N/S Line:N Feet from:230 E/W Line:W 6. latitude: 36.2579 longitude: -107.660785 7. County: San Juan				
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: 1/13/2016 Frac Performed by: Halliburton	12. Production Type: O					
13. Pool Code(s): 97232	14. Gross Fractured Interval: Confidential					
15. True Vertical Depth (TVD): 5,350 ft	16. Total Volume of Fluid Pumped: 1,828,932 gals					
17. Total Volume of Re-Use Water Pumped: 0 gals	18. Percent of Re-Use Water in Fluid Pumped: %					
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)
Fresh Water	Operator	Base Fluid	Fresh Water	7732-18-5	100%	64.22488%
NITROGEN LIQUEFIED	Halliburton	Fluid	NA	NA	0%	0%
BE-3S BACTERICIDE, Cla-Web(TM), GBW-30 BREAKER, HA	Halliburton	Additive, Biocide, Breaker, Corrosion Inhibitor, Gelling Agent, Non-ionic Surfactant, Proppant	NA	NA	0%	0%
MC B-8520	Multi-Chem	Biocide	NA	NA	0%	0%
			1,2,4 Trimethylbenzene	95-63-6	1%	0.00019%
			2,2 Dibromo-3-nitripropionamide	10222-01-2	100%	0.0004%
			2-Amino-2-methyl-1-propanol	124-68-5	5%	0.00045%
			2-Monobromo-3-nitripropionamide	1113-55-9	5%	2E-05%
			3,4,4-Trimethyloxazolidine	75673-43-7	10%	0.00089%
			4,4-Dimethyloxazolidine	51200-87-4	100%	0.00894%
			Alcohols, C14-C15, ethoxylated	68951-67-7	30%	5E-05%
			Amine salts	Confidential	0.1%	5E-05%
			Ammonium salt	Confidential	60%	0.01392%
			Bentonite, benzyl (hydrogenated tallow alkyl) dimethylammonium stearate complex	121888-68-4	5%	0.00343%
			C.I. Pigment Red 5	6410-41-9	1%	4E-05%
			Crystalline silica, quartz	14808-60-7	100%	19.02637%
			Crystalline Silica, Quartz	14808-60-7	0.1%	7E-05%
			Cured acrylic resin	Confidential	30%	0.00111%
			Enzyme	Confidential	5%	0.00018%
			Ethanol	64-17-5	60%	0.01155%
			Fatty acids, tall oil	Confidential	30%	5E-05%
			Glycerine	56-81-5	5%	0.00621%
			Guar gum	9000-30-0	100%	0.06853%
			Heavy aromatic petroleum naphtha	64742-94-5	30%	0.00577%
			Hemicellulase enzyme	9012-54-8	30%	0.00108%
			Inner salt of alkyl amines	Proprietary	30%	0.03723%
			Lactose	63-42-3	100%	0.00359%
			Methanol	67-56-1	60%	9E-05%
			Naphthalene	91-20-3	5%	0.00096%
			Nitrogen	7727-37-9	100%	15.95473%
			Olefins	Confidential	5%	2E-05%
			Oxyalkylated phenolic resin	Confidential	30%	0.0077%
			Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched	127087-87-0	5%	0.00096%
			Potassium chloride	7447-40-7	30%	0.163%
			Propargyl alcohol	107-19-7	10%	2E-05%
			Quaternary amine	Confidential	5%	0.00142%
			Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide	68527-49-1	30%	5E-05%
			Silica gel	112926-00-8	1%	0.00059%
			Sodium chloride	7647-14-5	30%	0.03839%
			Surfactant mixture	Confidential	1%	0.00137%
			Walnut hulls	NA	100%	0.00359%
			Water	7732-18-5	100%	0.63171%
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: <u>Signed Electronically</u>	Printed Name: <u>Anna Stotts</u>	Title: <u>Regulatory Analyst</u>				
Date: <u>2/4/2016</u>						
E-mail Address: <u>astotts@energen.com</u>						

NMOC does not require the reporting of information beyond MSDS data as described in 29 CFR 1910.1200. NMOC does not require the reporting or disclosure of proprietary, trade secret or confidential business information.