

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: 30-045-35641				
		2. Well Name: CROW MESA 24 08 2 #004H				
		3. Well Number: 004H				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:I Lot:I Section:2 Township:24N Range:08W Feet from:1370 N/S Line:S Feet from:507 E/W Line:E				
		5. Bottom Hole Location: Unit:I Lot:I Section:2 Township:24N Range:08W Feet from:1370 N/S Line:S Feet from:507 E/W Line:E				
		6. latitude: 36.33920587 longitude: -107.64505946				
		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: 11/8/2015 Frac Performed by: Halliburton		12. Production Type: O				
13. Pool Code(s): 19859		14. Gross Fractured Interval: Confidential				
15. True Vertical Depth (TVD): 6,198 ft		16. Total Volume of Fluid Pumped: 1,434,423 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%	57.17797%
HYDROCHLORIC ACID	Halliburton		Hydrochloric acid		60%	0.29516%
SSA-2	Halliburton	Proppant	Crystalline silica, quartz		100%	20.9935%
SAND - COMMON BROWN	Halliburton	Proppant	Crystalline silica, quartz		100%	0.48598%
LOSURF-300D	Halliburton	Non-ionic Surfactant	1,2,4 Trimethylbenzene		1%	0.00029%
			Ethanol		60%	0.0173%
			Heavy aromatic petroleum naphtha		30%	0.00865%
			Naphthalene		5%	0.00144%
			Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched		5%	0.00144%
Cla-Web(TM)	Halliburton	Additive	Ammonium salt	Confidential	60%	0.01839%
HC-2	Halliburton	Additive	Inner salt of alkyl amines	Proprietary	30%	0.0462%
			Sodium chloride		30%	0.0462%
Potassium Chloride	Halliburton				100%	0%
HAI-OS ACID INHIBITOR	Halliburton	Corrosion Inhibitor	Methanol		60%	0.00024%
			Propargyl alcohol		10%	4E-05%
MC B-8520	Multi-Chem	Biocide	4,4-Dimethyloxazolidine		100%	0.01103%
			3,4,4-Trimethyloxazolidine		5%	0.00055%
			2-Amino-2-methyl-1-propanol		1%	0.00011%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum		100%	0.09467%
GBW-30 BREAKER	Halliburton	Breaker	Hemicellulase enzyme		30%	0.00145%
OPTIFLO-HTE	Halliburton	Breaker	Crystalline silica, quartz		30%	0.00145%
			Walnut hulls		100%	0.00483%
BE-3S BACTERICIDE	Halliburton	Biocide	2,2 Dibromo-3-nitrilopropionamide		100%	0.00098%
			2-Monobromo-3-nitrilopropionamide		5%	5E-05%
NITROGEN LIQUEFIED	Halliburton	Fluid	Nitrogen		100%	20.52039%
Ingredients Listed Below This Line Are Part of the			Oxyalkylated phenolic resin	Confidential	0%	0%
			Water	7732-18-5	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: 12/22/2015						
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.