

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: 30-015-43715					
		2. Well Name: GRYNBERG 11 FEDERAL COM #005H					
		3. Well Number: 005H					
HYDRAULIC FRACTURING FLUID DISCLOSURE  <input checked="" type="checkbox"/> Original  <input type="checkbox"/> Amendment		4. Surface Hole Location: Unit:P    Lot:P    Section:11    Township:25S    Range:26E Feet from:330    N/S Line:S Feet from:331    E/W Line:E					
		5. Bottom Hole Location: Unit:P    Lot:P    Section:11    Township:25S    Range:26E Feet from:330    N/S Line:S Feet from:331    E/W Line:E					
		6. latitude:    longitude: 32.08185722    -104.1526957					
		7. County: Eddy					
8. Operator Name and Address: CIMAREX ENERGY CO. 600 N MARIENFELD STREET SUITE 600 MIDLAND 79701				9. OGRID:    215099		10. Phone Number:	
11. Last Fracture Date:    1/18/2017    Frac Performed by:    Halliburton				12. Production Type: O			
13. Pool Code(s): 97494				14. Gross Fractured Interval: 7,101 ft to 7,215 ft			
15. True Vertical Depth (TVD): 7,215 ft				16. Total Volume of Fluid Pumped: 5,338,731 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)	
Fresh Water	Operator	Base Fluid	Water	7732-18-5	100%	83.09369%	
BC-140 X2	Halliburton	Initiator	Listed Below	Listed Below	0%	0%	
OPTIFLO-III DELAYED RELEASE BREAKER	Halliburton	Breaker	Listed Below	Listed Below	0%	0%	
OptiKleen-WF(TM)	Halliburton	Concentrate	Listed Below	Listed Below	0%	0%	
SAND	Halliburton	Proppant	Listed Below	Listed Below	0%	0%	
SP BREAKER	Halliburton	Breaker	Listed Below	Listed Below	0%	0%	
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Listed Below	Listed Below	0%	0%	
Chlorine Dioxide	Baker Hughes	Biocide	Listed Below	Listed Below	0%	0%	
FDP-S1176-15	Halliburton	Friction Reducer	Listed Below	Listed Below	0%	0%	
FDP-S1225-15	Halliburton	Surfactant	Listed Below	Listed Below	0%	0%	
Ingredients	Listed Above	Listed Above	2,7-Naphthalenedisulfonic acid, 3-hydroxy-4-[(4-sulfor-1-naphthalenyl)azo] -, trisodium salt	915-67-3	0.1%	2E-05%	
			Alcohols, C 12-13, ethoxylated	66455-14-9	30%	0.02538%	
			Alcohols, C 12-16, ethoxylated	68551-12-2	5%	0.00423%	
			Ammonium persulfate	7727-54-0	100%	0.00134%	
			Crystalline silica, quartz	14808-60-7	100%	16.79344%	
			Cured acrylic resin	Proprietary	30%	0.0004%	
			Ethylene glycol	107-21-1	30%	0.00476%	
			Guar gum	9000-30-0	100%	0.03518%	
			Hydrotreated light petroleum distillate	64742-47-8	30%	0.00971%	
			Monoethanolamine borate	26038-87-9	100%	0.01586%	
			Polyacrylate	Proprietary	30%	0.00971%	
			Sodium perborate tetrahydrate	10486-00-7	100%	0.00381%	
			Sodium persulfate	7775-27-1	100%	0.00154%	
			Sodium sulfate	7757-82-6	0.1%	0%	
			Chlorine Dioxide	10049-04-4	100%	0.00092%	
			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:    Skipper Herring				Manager Stimulation Title:    Operations			
Date:    2/23/2017							
E-mail Address:    sherring@cimarex.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.