

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: 30-015-35494							
		2. Well Name: WHITE CITY 31 FEDERAL #004							
		3. Well Number: 004							
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:P Lot:P Section:31 Township:24S Range:26E Feet from:800 N/S Line:S Feet from:1250 E/W Line:E							
		5. Bottom Hole Location: Unit:P Lot:P Section:31 Township:24S Range:26E Feet from:800 N/S Line:S Feet from:1250 E/W Line:E							
		6. latitude: longitude: 32.1686363 -104.3277054							
		7. County: Eddy							
8. Operator Name and Address: CIMAREX ENERGY CO. OF COLORADO 202 S. Cheyenne Ave, Ste 1000 Tulsa 74103		9. OGRID: 162683	10. Phone Number: 918-295-1763						
11. Last Fracture Date: 4/22/2017 Frac Performed by: Halliburton		12. Production Type: G							
13. Pool Code(s): 87280, 98220		14. Gross Fractured Interval: 9,651 ft to 10,130 ft							
15. True Vertical Depth (TVD): 10,130 ft		16. Total Volume of Fluid Pumped: 790,736 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%	86.93584%			
Cla-Web II	Halliburton	Clay Stabilizer	Listed Below	Listed Below	0%	0%			
FDP-S1176-15	Halliburton	Friction Reducer	Listed Below	Listed Below	0%	0%			
FDP-S1226-15	Halliburton	Surfactant	Listed Below	Listed Below	0%	0%			
MC B-8614	Halliburton	Biocide	Listed Below	Listed Below	0%	0%			
OptiKleen-WF	Halliburton	Concentrate	Listed Below	Listed Below	0%	0%			
Sand	Halliburton	Proppant	Listed Below	Listed Below	0%	0%			
MSDS and Non-MSDS Ingredients are listed below					0%	0%			
Ingredients	Listed Above	Listed Above	9-Octadecenamide, n,n-bis-2(hydroxy-ethyl)-,(Z)	93-83-4	5%	0.00494%			
			Alcohols, C12-13, ethoxylated	66455-14-9	30%	0.02667%			
			Alcohols, C12-16, ethoxylated	68551-12-2	5%	0.00445%			
			Amine	Proprietary	0.1%	3E-05%			
			Amine salts	Proprietary	1%	0.0003%			
			Ammonium chloride	12125-02-9	5%	0.00494%			
			Ammonium compound	Proprietary	30%	0.00829%			
			Castor oil, ethoxylated	61791-12-6	5%	0.00494%			
			Chlorine compound	Proprietary	30%	0.00829%			
			Crystalline silica, quartz	14808-60-7	100%	12.91741%			
			Ethanol	64-17-5	1%	0.00025%			
			Ethylene oxide	75-21-8	0.01%	1E-05%			
			Glutaraldehyde	111-30-8	30%	0.00737%			
			Hydrotreated light petroleum distillate	64742-47-8	30%	0.02962%			
			Methanol	67-56-1	0.14%	3E-05%			
			Phosphoric acid	7664-38-2	0.1%	2E-05%			
			Polyacrylate	Proprietary	30%	0.02962%			
			Quaternary amine	Proprietary	1%	0.00055%			
			Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl chlorides	68424-85-1	5%	0.00123%			
			Sobitan, mono-9-octadececenoate, (Z)	1338-43-8	5%	0.00494%			
			Sodium chloride	7647-14-5	5%	0.00521%			
			Sodium perborate tetrahydrate	10486-00-7	100%	0.00506%			
					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: Skipper Herring		Manager Stimulation Title: Operations				
			Date: 6/15/2017						
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.