Submit within 45 days of well	completion	State of New Mexico			Revised November 6, 2013 1. WELL API NO.			
		Energy, Minerals and Natural Resources				30-015-43658 2. Well Name:		
						COTTONBERRY 20 FEDERAL COM #004H		
Oil Conservation Division						3. Well Number:		
		1220	S. St Francis I	Dr.		004H		
		Sar	nta Fe, NM 8750)5				
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HYDRAULIC FRACTURING FLUID DISCLOSURE						Unit:A Lot:A Section:20 Township:25S Range:27E Feet from:330 N/S Line:N Feet from:700 E/W Line:E		
Original			5. Bottom Hole Location:		W Line.E			
□ Amendment	Unit:A Lot:A Section Feet from:330		ownship:25S Range:27E 'S Line:N					
						Feet from:700	EΛ	W Line:E
						6. latitude: 32.0719365		longitude: -104.206052
	7. County: Eddy							
						Eddy		
8. Operator Name and Address: CIMAREX ENERGY CO. 600 N MARIENFELD STREET SUITE 600 MIDLAND 79701						215099	10. Phor	ne Number:
11. Last Fracture Date: 6/8/	Performed by: Halliburton	12. Production	Type:	.1				
						actured Interval:		
						392 ft to 7,508 ft ume of Fluid Pumped:		
7,508 ft 5						194,827 gals		
17. Total Volume of Re-Use Wa		Re-Use Water in Fluid Pumped: t Disclosed						
	COMPOS	ITION AND CONCENTR	ATION:		110	Disclosed		
Trade Name	Supplier	Purpose	Ingredients	(CAS #) Chemical Abstract Service #		Maximum Ingredient Concentration in Addit mass)	ive (% by	Maximum Ingredient Concentration in HF Fluid (% by mass)
Fresh Water	Operator	Base Fluid	Water	7732-18-5 Listed Below		100%		82.22043%
BA-40L BUFFERING AGENT	Halliburton	Buffer	Listed Below	Listed Below		0%		0%
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-COMMON WHITE- 100 MESH, SSA-2, BULK (100003676	Halliburton	Proppant	Listed Below	Listed Below			0%	0%
SAND-PREMIUM WHITE- 40/70, BULK	Halliburton	Proppant	Listed Below	Listed Below			0%	0%
SP BREAKER WG-36 GELLING AGENT	Halliburton	Breaker Colling Agent	Listed Below Listed Below	Listed Below Listed Below			0% 0%	0% 0%
FDP-S1176-15	Halliburton Halliburton	Gelling Agent Friction Reducer	Listed Below	Listed Below			0%	
FDP-S1226-15	Halliburton	Surfactant	Listed Below	Listed Below			0%	0%
MCB-8614 MSDS and Non-MSDS	Halliburton	Biocide	Listed Below	Listed Below			0% 0%	0%
Ingredients are listed below							0,0	
Ingredients	Listed Abov	e Listed Above	2,7- Naphthalenedisulfonic acid, 3-hydroxy-4-[(4- sulfor-1-naphthalenyl) azo] -, trisodium salt	915-67-3			0.1%	2E-05%
			Alcohols, C12-13, ethoxylated	66455-14-9			30%	0.02371%
			Alcohols, C12-16, ehoxylated				5%	0.00395%
			Allikyl(C12-16) dimethylbenzylammonium chloride				5%	0.00104%
			Ammonium chloride ((NH4)Cl)	12125-02-9			2%	0.00069%
			Ammonium persulfate copolymer of 2-	7727-54-0 Proprietary			100% 30%	0.00133% 0.01042%
			propenamide Crystalline silica, quartz	14808-60-	-7		100%	17.57134%
			Cured acrylic resin	Proprietary		30%		0.0004%
			Ethylene glycol Glutaraldehyde	107-21-1 111-30-8		30%		0.00564% 0.00625%
			Guar gum	9000-30-0		100%		0.04253%
			Monoethanolamine borate Oleic Acid	26038-87- 93-83-4	.9		100% 1.5%	0.0188% 0.00052%
			Diethanolamide	•				
			Petroleum Distilate Potassium carbonate	64742-47-8 584-08-7		1	20% 60%	0.00695% 0.00469%
			Sodium perborate	10486-00-7		†	100%	0.00469%
			tetrahydrate	7775-27-1		1	1000/	0.004050/
			Sodium persulfate Sodium sulfate	7775-27-1 7757-82-6		+	100% 0.1%	0.00105%
			Water	7732-18-5	i		60%	0.02769%
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: 7/25/2017								
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								

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