

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 ☒ Original ☐ Amendment				1. WELL API NO: 30-015-43015		
				2. Well Name: COTTONMOUTH 23 FEDERAL COM #002H		
				3. Well Number: 002H		
				4. Surface Hole Location: Unit:A Lot:A Section:22 Township:26S Range:28E Feet from:190 N/S Line:N Feet from:330 E/W Line:E		
				5. Bottom Hole Location: Unit:M Lot:M Section:23 Township:26S Range:28E Feet from:338 N/S Line:S Feet from:961 E/W Line:W		
				6. latitude: 32.034786174 longitude: -104.06753455		
				7. County: Eddy		
8. Operator Name and Address: COG PRODUCTION, LLC 600 W. Illinois Ave Midland 79701				9. OGRID: 217955	10. Phone Number: 432-685-4372	
11. Last Fracture Date: 3/30/2016 Frac Performed by: Halliburton				12. Production Type: O		
13. Pool Code(s): 30215				14. Gross Fractured Interval: 8,339 ft to 12,787 ft		
15. True Vertical Depth (TVD): 8,159 ft				16. Total Volume of Fluid Pumped: 5,068,488 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	Fresh Water	7732-18-5	100%	86.57153%
HYDROCHLORIC ACID	Halliburton	Solvent	NA	NA	0%	0%
BC-140 X2, Cla-Web(TM) II, DCA-32003, HpH BREAKER,	Halliburton	Additive, Breaker, Concentrate, Friction Reducer, Gelling Agent, Initiator, pH Control Additive, Pro	NA	NA	0%	0%
Parasorb, Scaletrol	Baker Hughes	Additive, Scale Inhibitor	NA	NA	0%	0%
			1,2-Benzisothiazolin-3-one	2634-33-5	0.1%	0%
			2,7-Naphthalenedisulfonic acid, 3-hydroxy-4-[(4-sulfor-1-naphthalenyl) azo] -, trisodium salt	915-67-3	0.1%	3E-05%
			Acrylamide	79-06-1	0.01%	0%
			Acrylamide, sodium acrylate polymer	25987-30-8	30%	0.00562%
			Alkane	Confidential	1%	0.00046%
			Amine	Confidential	0.1%	6E-05%
			Amine salts	Confidential	1%	0.00064%
			Ammonium compound	Confidential	30%	0.01426%
			Bentonite, benzyl(hydrogenated tallow alkyl) dimethylammonium stearate complex	121888-68-4	5%	0.00639%
			C.I. Pigment Red 5	6410-41-9	1%	5E-05%
			Calcium chloride	10043-52-4	0.1%	0%
			Chlorine compound	Confidential	30%	0.01426%
			Complex alkylamine	Confidential	5%	0.00228%
			Crystalline silica, quartz	14808-60-7	100%	12.74978%
			Cured acrylic resin	Confidential	30%	0.00138%
			Enzyme	Confidential	5%	0.00023%
			Ethoxylated branched C13 alcohol	78330-21-9	5%	0.00094%
			Ethylene glycol	107-21-1	30%	0.00778%
			Ethylenediaminetetraacetic acid, tetrasodium salt	64-02-8	0.01%	1E-05%
			Glassy calcium magnesium phosphate	65997-17-3	100%	0.01435%
			Glycerine	56-81-5	10%	0.00455%
			Guar gum	9000-30-0	100%	0.12783%
			Hexamethylenetetramine	100-97-0	2%	0.04818%
			Hydrochloric acid	7647-01-0	60%	0.22621%
			Hydrogen peroxide	7722-84-1	0.01%	1E-05%
			Hydrotreated light petroleum distillate	64742-47-8	30%	0.00562%
			Monoethanolamine borate	26038-87-9	100%	0.02594%
			Nitrotriacetic acid, trisodium salt monohydrate	5064-31-3	0.01%	1E-05%
			Phenol / formaldehyde resin	9003-35-4	5%	0.12044%
			Poly(oxy-1,2-ethanediyl), .alpha.-isodecyl-.omega.-hydroxy-	61827-42-7	30%	0.01365%
			Quaternary amine	Confidential	1%	0.00116%
			Silica gel	112926-00-8	1%	0.00128%
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	5%	0.00094%
			Sodium bicarbonate	144-55-8	0.01%	1E-05%
			Sodium chloride	7647-14-5	30%	0.00027%
			Sodium diacetate	126-96-5	5%	0.00094%
			Sodium glycolate	2836-32-0	0.01%	1E-05%
			Sodium hydroxide	1310-73-2	30%	0.0013%
			Sodium perborate tetrahydrate	10486-00-7	100%	0.00192%
			Sorbitan monooleate	9005-65-6	5%	0.00094%
			polyoxyethylene derivative			
Surfactant mixture	Confidential	1%	0.00256%			
Walnut hulls	NA	100%	0.00445%			
Water	7732-18-5	100%	0.47926%			
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: Stormi Davis		Senior Regulatory		
Date: 6/17/2016				Title: Analyst		
E-mail Address: sdavis@concho.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.