

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 February 15, 2012							
		1. WELL API NO: 30-015-39784							
		2. Well Name: COTTONMOUTH 23 FEDERAL COM							
		3. Well Number: 001H							
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:C Lot:C Section:23 Township:26S Range:28E Feet from:35 N/S Line:N Feet from:2310 E/W Line:W							
		5. Bottom Hole Location: Unit:N Lot:N Section:23 Township:26S Range:28E Feet from:347 N/S Line:S Feet from:2189 E/W Line:W							
		6. Latitude: 32.0352092002936 longitude: - 104.058978475912							
		7. County: Eddy							
8. Operator Name and Address: COG PRODUCTION, LLC 550 W. Texas Avenue, Suite 100 Midland 79701		9. OGRID: 217955		10. Phone Number: 432-685-4372					
11. Last Fracture Date: 5/26/2012 Frac Performed by: Halliburton		12. Production Type: O							
13. Pool Code(s): 30215		14. Gross Fractured Interval: 8,840 ft to 12,769 ft							
15. True Vertical Depth (TVD): 8,148 ft		16. Total Volume of Fluid Pumped: 64,758 bbls							
17. 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				100%	84.10863%			
HYDROCHLORIC ACID 10-30%	Halliburton	Solvent	Hydrochloric acid	7647-01-0	30%	2.2149%			
Parasorb	Operator				100%	0.16805%			
Scaltrol	Operator				100%	0.02485%			
SAND - PREMIUM WHITE	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	11.78769%			
CRC SAND PREMIUM	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	1.17721%			
			Hexamethylenetetramine	100-97-0	2%	0.02354%			
			Phenol / formaldehyde resin	9003-35-4	5%	0.05886%			
HpH BREAKER	Halliburton	Breaker	Sodium chloride	7647-14-5	30%	0.00014%			
BC-140 X2	Halliburton	Initiator	Ethylene glycol	107-21-1	30%	0.00639%			
			Monoethanolamine borate	26038-87-9	100%	0.02129%			
FR-38	Halliburton	Friction Reducer	Acetic acid	64-19-7	5%	0.00184%			
			Ammonium sulfate Inorganic Salt	Confidential Business Information	30%	0.01101%			
SUPERSET W	Halliburton	Activator	Methanol	67-56-1	60%	0.00546%			
			Ethoxylated nonylphenol	Confidential Business Information	60%	0.00546%			
CLA-STA XP ADDITIVE	Halliburton	Clay Stabilizer	Polyepichlorohydrin, trimethyl amine quaternized	51838-31-4	60%	0.06431%			
CLA-WEB™	Halliburton	Additive	Ammonium salt	Confidential Business Information	50%	0.02165%			
BE-9	Halliburton	Biocide	Tributyl tetradecyl phosphonium chloride	81741-28-8	10%	0.00412%			
LoSurf-300D	Halliburton	Non-ionic Surfactant	1,2,4 Trimethylbenzene	95-63-6	1%	0.00079%			
			Ethanol	64-17-5	60%	0.04721%			
			Heavy aromatic petroleum naphtha	64742-94-5	30%	0.02361%			
			Naphthalene	91-20-3	5%	0.00393%			
			Poly(oxy-1,2-ethanediy), alpha-(4-nonylphenyl)-omega-hydroxy-, branched	127087-87-0	5%	0.00393%			
MO-67	Halliburton	pH Control Additive	Sodium hydroxide	1310-73-2	30%	0.00352%			
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.10237%			
BE-6 MICROBIOCIDE	Halliburton	Biocide	2-Bromo-2-nitro-1,3-propanediol	52-51-7	100%	0.00011%			
OPTIFLO-HTE	Halliburton	Breaker	Crystalline silica, quartz	14808-60-7	30%	0.00128%			
			Walnut hulls	Mixture	100%	0.00426%			
OptiKleen-WF™	Halliburton	Concentrate	Sodium perborate tetrahydrate	10486-00-7	100%	0.00329%			
Scalechek® SCP-2 Scale Inhibitor	Halliburton	Scale Preventer	Glassy calcium magnesium phosphate	65997-17-3	100%	0.01681%			
Ingredients Listed Below This Line Are Part of the			1,2-Benzisothiazolin-3-one	2634-33-5	0%	0%			
			2,7-Naphthalenedisulfonic acid, 3-hydroxy-4-[(4-sulfur-1-naphthalenyl)azo] -, trisodium salt	915-67-3	0%	0%			
			Acrylamide copolymer	Proprietary	0%	0%			
			Amine Salt	Confidential Business Information	0%	0%			
			Amine Salts	Confidential Business Information	0%	0%			
			Amine Salts	Confidential Business Information	0%	0%			
			Bentonite, benzyl (hydrogenated tallow alkyl) dimethylammonium stearate complex	121888-68-4	0%	0%			
			C.I. Pigment Red 5	6410-41-9	0%	0%			
			Calcium chloride	10043-52-4	0%	0%			
			Crystalline Silica, Quartz	14808-60-7	0%	0%			
			Cured Acrylic Resin	Confidential Business Information	0%	0%			
			Cured Acrylic Resin	Confidential Business Information	0%	0%			
			Defoamer	Proprietary	0%	0%			
			Enzyme	Confidential Business Information	0%	0%			
			Enzyme	Confidential Business Information	0%	0%			
			Glycerine	56-81-5	0%	0%			
			Modified acrylamide copolymer	Proprietary	0%	0%			
			Modified acrylate polymer	Proprietary	0%	0%			
			Oxyalkylated Phenolic Resin	Confidential Business Information	0%	0%			
			Oxyalkylated Phenolic Resin	Confidential Business Information	0%	0%			
			Quaternary Amine	Confidential Business Information	0%	0%			
			Quaternary Amine	Confidential Business Information	0%	0%			
			Quaternary Amine	Confidential Business Information	0%	0%			
			Silica gel	112926-00-8	0%	0%			
			Silica, amorphous - fumed	7631-86-9	0%	0%			
			Sodium acetate	127-09-3	0%	0%			
			Sodium chloride	7647-14-5	0%	0%			
			Surfactant Mixture	Confidential Business Information	0%	0%			
			Surfactant Mixture	Confidential Business Information	0%	0%			
			Trimethylamine, N-oxide	1184-78-7	0%	0%			
			Water	7732-18-5	0%	0%			
			18. 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: Monti Sanders		Permitting / ROW Title: Technician		
			Date: 7/23/2012						
E-mail Address: msanders@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.									