

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			
HYDRAULIC FRACTURING FLUID DISCLOSURE ☐ Original ☒ Amends disclosure submitted on 11/1/2012		1. WELL API NO: 30-025-40348					
		2. Well Name: COSMO 8 STATE #004H					
		3. Well Number: 004H					
		4. Surface Hole Location: Unit:P Lot:P Section:8 Township:21S Range:34E Feet from:660 N/S Line:S Feet from:660 E/W Line:E					
		5. Bottom Hole Location: Unit:M Lot:M Section:8 Township:21S Range:34E Feet from:600 N/S Line:S Feet from:291 E/W Line:W					
		6. latitude: 32.4879340735168 longitude: - 103.485535028844					
		7. County: Lea					
8. Operator Name and Address: COG OPERATING LLC One Concho Center 600 W. Illinois Ave Midland 79701				9. OGRID: 229137		10. Phone Number: 432-685-4332	
11. Last Fracture Date: 8/28/2012 Frac Performed by: Halliburton				12. Production Type: O			
13. Pool Code(s): 96660				14. Gross Fractured Interval: 11,036 ft to 14,692 ft			
15. True Vertical Depth (TVD): 10,809 ft				16. Total Volume of Fluid Pumped: 61,408 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%	85.32477%	
FE ACID - <10% HCL	Halliburton	Solvent	Hydrochloric acid	7647-01-0	10%	2.08389%	
30/50 Super DC	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	11.88902%	
			Hexamethylenetetramine	100-97-0	2%	0.23778%	
			Phenol / formaldehyde resin	9003-35-4	5%	0.59445%	
CL-22 UC	Halliburton	Crosslinker	Potassium formate	590-29-4	60%	0.04082%	
CLA-WEB™	Halliburton	Additive	Ammonium salt	Confidential Business Information	50%	0.02487%	
CLA-STA XP ADDITIVE	Halliburton	Clay Stabilizer	Polyepichlorohydrin, trimethyl amine quaternized	51838-31-4	60%	0.02209%	
FDP-S1041-12	Halliburton	Non-ionic Surfactant	1,2,4 Trimethylbenzene	95-63-6	1%	0.00083%	
			Ethanol	64-17-5	60%	0.04985%	
			Heavy aromatic petroleum naphtha	64742-94-5	30%	0.02493%	
			Naphthalene	91-20-3	5%	0.00415%	
			Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched	127087-87-0	5%	0.00415%	
BE-9	Halliburton	Biocide	Tributyl tetradecyl phosphonium chloride	81741-28-8	10%	0.00391%	
MO-67	Halliburton	pH Control Additive	Sodium hydroxide	1310-73-2	30%	0.00902%	
D-AIR 3000L	Halliburton	Defoamer	Alkenes	Confidential Business Information	100%	0.01436%	
			Silica, amorphous precipitated	67762-90-7	30%	0.00431%	
CL-31 CROSSLINKER	Halliburton	Crosslinker	Potassium hydroxide	1310-58-3	5%	0.00158%	
			Potassium metaborate	13709-94-9	60%	0.019%	
FR-38	Halliburton	Friction Reducer	Acetic acid	64-19-7	5%	0.00073%	
			Ammonium sulfate Inorganic Salt	Confidential Business Information	30%	0.00438%	
3rd Party Scale Inhibitor	Operator	*3rd Party Additive	*Supplied by Operator		100%	0.02558%	
HAI-OS ACID INHIBITOR	Halliburton	Corrosion Inhibitor	Methanol	67-56-1	60%	0.00214%	
			Propargyl alcohol	107-19-7	10%	0.00036%	
FE-1A ACIDIZING COMPOSITION	Halliburton	Additive	Acetic acid	64-19-7	60%	0.01296%	
			Acetic anhydride	108-24-7	100%	0.0216%	
FE-2A	Halliburton	Additive	Citric acid	77-92-9	60%	0.01346%	
OPTIFLO-III DELAYED RELEASE BREAKER	Halliburton	Breaker	Ammonium persulfate	7727-54-0	100%	0.00948%	
			Crystalline silica, quartz	14808-60-7	30%	0.00284%	
OptiKleen-WF™	Halliburton	Concentrate	Sodium perborate tetrahydrate	10486-00-7	100%	0.00153%	
WG-35 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.21082%	
Scalechek® SCP-2 Scale Inhibitor	Halliburton	Scale Preventer	Glassy calcium magnesium phosphate	65997-17-3	100%	0.01986%	
3rd Party Paraffin Inhibitor	Operator	*3rd Party Additive	*Supplied by Operator		100%	0.01986%	
BE-6 MICROBIOCIDE	Halliburton	Biocide	2-Bromo-2-nitro-1,3-propanediol	52-51-7	100%	0.00012%	
Ingredients Listed Below This Line Are Part of the			Acrylamide copolymer	Proprietary	0%	0%	
			Acrylate Polymer	Confidential Business Information	0%	0%	
			Alcohols, C14-C15, ethoxylated	68951-67-7	0%	0%	
			Amine Salt	Confidential Business Information	0%	0%	
			Amine Salts	Confidential Business Information	0%	0%	
			Amine Salts	Confidential Business Information	0%	0%	
			Borate salts	Confidential Business Information	0%	0%	
			Crystalline silica, quartz	14808-60-7	0%	0%	
			Cured Acrylic Resin	Confidential Business Information	0%	0%	
			Defoamer	Proprietary	0%	0%	
			Ethoxylated Nonylphenol	Confidential Business Information	0%	0%	
			Fatty acids, tall oil	Confidential Business Information	0%	0%	
			Glycerine	56-81-5	0%	0%	
			Modified acrylamide copolymer	Proprietary	0%	0%	
			Modified acrylate polymer	Proprietary	0%	0%	
			Modified Bentonite	Confidential Business Information	0%	0%	
			Olefins	Confidential Business Information	0%	0%	
			Olefins	Confidential Business Information	0%	0%	
			Olefins	Confidential Business Information	0%	0%	
			Olefins	Confidential Business Information	0%	0%	
			Oxyalkylated Phenolic Resin	Confidential Business Information	0%	0%	
			Oxyalkylated Phenolic Resin	Confidential Business Information	0%	0%	
			Polypropylene glycol	25322-69-4	0%	0%	
			Quaternary Amine	Confidential Business Information	0%	0%	
			Quaternary Amine	Confidential Business Information	0%	0%	
			Quaternary Amine	Confidential Business Information	0%	0%	
			Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide	68527-49-1	0%	0%	
			Silica, amorphous - fumed	7631-86-9	0%	0%	
			Sodium acetate	127-09-3	0%	0%	
			Sodium carboxymethyl cellulose	9004-32-4	0%	0%	
			Sodium chloride	7647-14-5	0%	0%	
			Sodium glycollate	2836-32-0	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: <u>Signed Electronically</u>		Printed Name: <u>Monti Sanders</u>		Permitting / ROW Title: <u>Technician</u>			
Date: <u>11/1/2012</u>							
E-mail Address: <u>msanders@concho.com</u>							

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.