

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: 30-015-38150					
		2. Well Name: DIRTY DOZEN FEDERAL COM #004H					
		3. Well Number: 004H					
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:P Lot:P Section:36 Township:19S Range:31E Feet from:1650 N/S Line:S Feet from:660 E/W Line:E					
		5. Bottom Hole Location: Unit:7 Lot:7 Section:31 Township:19S Range:32E Feet from:407 N/S Line:S Feet from:464 E/W Line:E					
		6. Latitude: 32.614254240993 Longitude: - 103.816214193785					
		7. County: Eddy					
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: 9/17/2012 Frac Performed by: Halliburton		12. Production Type: O					
13. Pool Code(s): 97650		14. Gross Fractured Interval: 10,398 ft to 14,929 ft					
15. True Vertical Depth (TVD): 9,388 ft		16. Total Volume of Fluid Pumped: 69,512 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%	85.83893%	
FE ACID - <10% HCL	Halliburton	Solvent	Hydrochloric acid	7647-01-0	10%	1.661%	
Ottawa 20/40	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	10.84816%	
CRC-16/30	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	1.11197%	
			Hexamethylenetetramine	100-97-0	2%	0.02224%	
			Phenol / formaldehyde resin	9003-35-4	5%	0.0556%	
HpH BREAKER	Halliburton	Breaker	Sodium chloride	7647-14-5	30%	0.0068%	
CLA-STA XP ADDITIVE	Halliburton	Clay Stabilizer	Polyepichlorohydrin, trimethyl amine quaternized	51838-31-4	60%	0.0719%	
LoSurf-300D	Halliburton	Non-ionic Surfactant	1,2,4 Trimethylbenzene	95-63-6	1%	0.00077%	
			Ethanol	64-17-5	60%	0.04644%	
			Heavy aromatic petroleum naphtha	64742-94-5	30%	0.02322%	
			Naphthalene	91-20-3	5%	0.00387%	
			Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched	127087-87-0	5%	0.00387%	
BE-9	Halliburton	Biocide	Tributyl tetradecyl phosphonium chloride	81741-28-8	10%	0.00397%	
SUPERSET W	Halliburton	Activator	Methanol	67-56-1	60%	0.01342%	
			Ethoxylated nonylphenol	Confidential Business Information	60%	0.01342%	
BC-140 X2	Halliburton	Initiator	Ethylene glycol	107-21-1	30%	0.00638%	
			Monoethanolamine borate	26038-87-9	100%	0.02127%	
FR-38	Halliburton	Friction Reducer	Acetic acid	64-19-7	5%	0.00214%	
			Ammonium sulfate	Confidential Business Information	30%	0.01286%	
			Inorganic Salt	Confidential Business Information			
CLA-WEB™	Halliburton	Additive	Ammonium salt	Confidential Business Information	50%	0.02169%	
3rd Party Scale Inhibitor	Operator	*3rd Party Additive	*Supplied by Operator		100%	0.0024%	
OPTIFLO-HTE	Halliburton	Breaker	Crystalline silica, quartz	14808-60-7	30%	0.00133%	
			Walnut hulls	Mixture	100%	0.00445%	
OptiKleen-WF™	Halliburton	Concentrate	Sodium perborate tetrahydrate	10486-00-7	100%	0.00485%	
WG-35 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.1069%	
BE-6 MICROBIOCIDE	Halliburton	Biocide	2-Bromo-2-nitro-1,3-propanediol	52-51-7	100%	8E-05%	
Scalechek® SCP-2 Scale Inhibitor	Halliburton	Scale Preventer	Glassy calcium magnesium phosphate	65997-17-3	100%	0.01588%	
3rd Party Clay Control	Operator	*3rd Party Additive	*Supplied by Operator		100%	0.01588%	
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-sulfor-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%	
			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%	
			Ethoxylated Nonylphenol	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%	
			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, amorphous - fumed	7631-86-9	0%	0%	
			Sodium acetate	127-09-3	0%	0%	
			Sodium chloride	7647-14-5	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>10/29/2012</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.