

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							
		1. WELL API NO. 30-015-44103							
		2. Well Name: POPULUS FEDERAL #004H							
		3. Well Number: 004H							
HYDRAULIC FRACTURING FLUID DISCLOSURE <input checked="" type="checkbox"/> Original <input type="checkbox"/> Amendment		4. Surface Hole Location: Unit:D Lot:D Section:29 Township:25S Range:27E Feet from:210 N/S Line:N Feet from:990 E/W Line:W							
		5. Bottom Hole Location: Unit:M Lot:M Section:29 Township:25S Range:27E Feet from:201 N/S Line:S Feet from:650 E/W Line:W							
		6. latitude: longitude: 32.1075917 -104.2173757							
		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: 7/16/2017 Frac Performed by: Halliburton			12. Production Type: O						
13. Pool Code(s): 97818			14. Gross Fractured Interval: 7,565 ft to 11,900 ft						
15. True Vertical Depth (TVD): 7,417 ft			16. Total Volume of Fluid Pumped: 9,467,289 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	Water	7732-18-5	100%	89.01967%			
Cla-Web(TM) II	Halliburton	Clay Stabilizer	Listed Below	Listed Below	0%	0%			
DCA-23003	Halliburton	Friction Reducer	Listed Below	Listed Below	0%	0%			
FDP-S1226-15	Halliburton	Surfactant	Listed Below	Listed Below	0%	0%			
HAL-OS ACID INHIBITOR	Halliburton	Corrosion Inhibitor	Listed Below	Listed Below	0%	0%			
HYDROCHLORIC ACID	Halliburton	Solvent	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%			
Scalechek(R) SCP-2 Scale Inhibitor	Halliburton	Scale Preventer	Listed Below	Listed Below	0%	0%			
Parasorb 5000	Baker Hughes	Paraffin Inhibitor	Listed Below	Listed Below	0%	0%			
Scaletrol	Baker Hughes	Scale Inhibitor	Listed Below	Listed Below	0%	0%			
ACS 100	Brenntag	Biocide	Listed Below	Listed Below	0%	0%			
ACS 200	Brenntag	Biocide	Listed Below	Listed Below	0%	0%			
ACS 300	Occidental Chemical Corporation	Biocide	Listed Below	Listed Below	0%	0%			
MSDS and Non-MSDS Ingredients are listed below the					0%	0%			
Ingredients	Listed Above	Listed Above	Acrylamide	79-06-1	0.01%	1E-05%			
			Acrylamide, sodium acrylate polymer	25987-30-8	30%	0.02794%			
			Alcohols, C12-13, ethoxylated	66455-14-9	30%	0.01334%			
			Alcohols, C12-16, ethoxylated	68551-12-2	5%	0.00222%			
			Amine	Proprietary	0.1%	5E-05%			
			Amine salts	Proprietary	1%	0.00052%			
			Ammonium compound	Proprietary	30%	0.01417%			
			Calcium Chloride	10043-52-4	5%	0.0013%			
			Chlorine compound	Proprietary	30%	0.01417%			
			Crystalline silica, quartz	14808-60-7	100%	9.77856%			
			Crystalline Silica	14808-60-7	1%	6E-05%			
			Diatomaceous Earth, Calcined	91053-39-3	60%	0.00385%			
			Ethoxylated alcohols	Proprietary	30%	0.00021%			
			Ethoxylated branched C13 alcohol	78330-21-9	5%	0.00466%			
			Ethylene Glycol	107-21-1	30%	0.00781%			
			Ethylene oxide	75-21-8	0.01%	0%			
			Fatty acids, tall oil	Proprietary	30%	0.00021%			
			Glassy calcium magnesium phosphate	65997-17-3	100%	0.01677%			
			Hydrochloric acid	7647-01-0	60%	0.56207%			
			Hydrogen Chloride	7647-01-0	15%	0.00069%			
			Hydrotreated light petroleum distillate	64742-47-8	30%	0.02794%			
			Methanol	67-56-1	60%	0.00042%			
			Mineral Oil	8042-47-5	30%	0.00192%			
			Olefins	Proprietary	5%	8E-05%			
			Propargyl alcohol	107-19-7	10%	7E-05%			
			Quaternary amine	Proprietary	1%	0.00094%			
			Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide	68527-49-1	30%	0.00021%			
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	5%	0.00466%			
			Sodium chloride	7647-14-5	1%	0.00047%			
			Sodium Chloride	7647-14-5	10%	0.00113%			
			Sodium Chlorite	7758-19-2	35%	0.00293%			
			Sodium diacetate	126-96-5	5%	0.00466%			
			Sodium Hypochlorite	007681-52-9	13%	0.00093%			
			Sodium Hyroxide	001310-73-2	2%	0.00014%			
			Sodium perborate tetrahydrate	10486-00-7	100%	0.01016%			
			Sorbitan monooleate polyoxyethylene derivative	9005-65-6	5%	0.00466%			
			Water	7732-18-5	100%	1.10041%			
			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 Title: Regulatory Analyst						
			Date: 9/6/2017						
			E-mail Address: sdavis@conchoresources.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.