

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. 30-015-44118							
		2. Well Name: COPPERHEAD 31 FEDERAL COM #021H							
		3. Well Number: 021H							
HYDRAULIC FRACTURING FLUID DISCLOSURE <input checked="" type="checkbox"/> Original <input type="checkbox"/> Amendment		4. Surface Hole Location: Unit:B Lot:B Section:30 Township:26S Range:29E Feet from:210 N/S Line:N Feet from:1650 E/W Line:E							
		5. Bottom Hole Location: Unit:6 Lot:6 Section:31 Township:26S Range:29E Feet from:212 N/S Line:S Feet from:2002 E/W Line:E							
		6. latitude: longitude: 32.020185 -104.020036							
		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: 7/13/2017 Frac Performed by: Halliburton		12. Production Type: G							
13. Pool Code(s): 98220		14. Gross Fractured Interval: 10,981 ft to 17,660 ft							
15. True Vertical Depth (TVD): 10,797 ft		16. Total Volume of Fluid Pumped: 16,666,990 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%	91.35964%			
BC-140 X2	Halliburton	Initiator	Listed Below	Listed Below	0%	0%			
Cla-Web(TM) II	Halliburton	Clay Stabilizer	Listed Below	Listed Below	0%	0%			
DCA-23002	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%			
K-34	Halliburton	Buffer	Listed Below	Listed Below	0%	0%			
LCA-1	Halliburton	Solvent	Listed Below	Listed Below	0%	0%			
LP-65 MC	Halliburton	Scale Inhibitor	Listed Below	Listed Below	0%	0%			
MO-67	Halliburton	pH Control Additive	Listed Below	Listed Below	0%	0%			
N-ZYME 1	Halliburton		Listed Below	Listed Below	0%	0%			
OPTIFLO-IIIA DELAYED RELEASE BREAKER	Halliburton	Breaker	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%			
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Listed Below	Listed Below	0%	0%			
MSDS and Non-MSDS Ingredients are listed below the					0%	0%			
Ingredients	Listed Above	Listed Above	2,7-Naphthalenedisulfonic acid, 3-hydroxy-4-[(4-sulfor-1-naphthalenyl) azo] -, trisodium salt	915-67-3	0.1%	0%			
			Acrylamide acrylate copolymer	9003-06-9	60%	0.06213%			
			Acrylonitrile	107-13-1	0.1%	0.0001%			
			Alcohols, C12-13, ethoxylated	66455-14-9	30%	0.0143%			
			Alcohols, C12-16, ethoxylated	68551-12-2	5%	0.00238%			
			Amine	Proprietary	0.1%	6E-05%			
			Amine salts	Proprietary	1%	0.00069%			
			Ammonium chloride	12125-02-9	30%	0.00611%			
			Ammonium compound	Proprietary	30%	0.01892%			
			Chlorine compound	Proprietary	30%	0.01892%			
			Crystalline silica, quartz	14808-60-7	100%	7.84106%			
			Diammonium phosphate	7783-28-0	5%	0.00102%			
			Ethoxylated alcohols	Proprietary	30%	0.00019%			
			Ethylene glycol	107-21-1	30%	0.00011%			
			Ethylene oxide	75-21-8	0.01%	0%			
			Fatty acids, tall oil	Proprietary	30%	0.00019%			
			Glassy calcium magnesium phosphate	65997-17-3	100%	0.00269%			
			Guar gum	9000-30-0	100%	0.12758%			
			Hdrotreated light petroleum distillates	Proprietary	100%	7E-05%			
			Hydrochloric acid	7647-01-0	60%	0.25738%			
			Methanol	67-56-1	60%	0.00039%			
			Monoethanolamine borate	26038-87-9	100%	0.00036%			
			N-ZYME 1	10486-00-7	100%	0%			
			Olefins	Proprietary	5%	8E-05%			
			Organic phosphonate	Proprietary	60%	0.01223%			
			Polymer	Proprietary	30%	0.00056%			
			Propargyl alcohol	107-19-7	10%	6E-05%			
			Quaternary amine	Proprietary	1%	0.00126%			
			Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide	68527-49-1	30%	0.00019%			
			Sodium bicarbonate	144-55-8	100%	6E-05%			
			Sodium chloride	7647-14-5	100%	0.10417%			
			Sodium hydroxide	1310-73-2	30%	1E-05%			
			Sodium perborate tetrahydrate	10486-00-7	100%	0.00238%			
			Water	7732-18-5	100%	0.55288%			
			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 Title: Analyst		
Date: 9/12/2017									
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.