

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: 30-015-43924				
		2. Well Name: COPPERHEAD 31 FEDERAL COM #003H				
		3. Well Number: 003H				
HYDRAULIC FRACTURING FLUID DISCLOSURE <input checked="" type="checkbox"/> Original <input type="checkbox"/> Amendment	4. Surface Hole Location: Unit:A Lot:A Section:30 Township:26S Range:29E Feet from:349 N/S Line:N Feet from:773 E/W Line:E					
	5. Bottom Hole Location: Unit:7 Lot:7 Section:31 Township:26S Range:29E Feet from:1980 N/S Line:N Feet from:656 E/W Line:E					
	6. latitude: longitude: 32.019787 -104.01721					
	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: 1/7/2017 Frac Performed by: Halliburton		12. Production Type: O				
13. Pool Code(s): 98190		14. Gross Fractured Interval: 10,916 ft to 17,324 ft				
15. True Vertical Depth (TVD): 10,741 ft		16. Total Volume of Fluid Pumped: 22,021,314 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)
Water	Operator	Carrier/Base Fluid	Water	7732-18-5	100%	93.11019%
Sand	TSS	Proppant	Silica Substrate	14808-60-7	100%	6.35418%
15% HCL	Reagent	Acidizing	Hydrochloric Acid	7647-01-0	15%	0.04259%
Chemplex 4-N-1	Chemplex	Combination/Iron Control	2-Ethylhexanol	104-76-7	10%	0.00032%
			Acetic Acid	64-19-7	85%	0.00276%
			Alcohol Ethoxylate Surfactants	Proprietary	2%	6E-05%
			Cocamide	68603-42-9	2%	6E-05%
			Diethanolamine Salt			
			Diethanolamine	111-42-2	2%	6E-05%
			Methyl Alcohol	67-56-1	10%	0.00032%
			n-olefins	Proprietary	1%	3E-05%
			Propargyl Alcohol	107-19-7	1%	3E-05%
			thiourea-formaldehyde copolymer	68527-49-1	2%	6E-05%
ClayBlok 35	DCS	Clay Stabilizer	Choline chloride	67-48-1	0.95%	0.06833%
			Biopolymer	Proprietary	0.1%	0.00719%
EnviroSurf 2	DCS	Surfactant	Polyalkylhydroxyl Alcohol	Proprietary	0.1%	0.0034%
			Alkoxy Alcohol	Proprietary	0.1%	0.0034%
			Alkylamidosulfate	Proprietary	0.1%	0.0034%
			Phosphate	Proprietary	0.1%	0.0034%
			Inorganic Salt	Proprietary	0.1%	0.0034%
			Terpene Hydrocarbo	Proprietary	0.1%	0.0034%
			Organic Salt	Proprietary	0.1%	0.0034%
			HiFlow 5	DCS	Viscosifier	Acrylamide P/W Acrylic Adid Ammonium Salt
Petroleum Distillate	Proprietary	0.2%	0.0165%			
Dewaxed Heavy Paraffinic	Proprietary	0.1%	0.00825%			
Hydrotreated Heavy Paraffinic	Proprietary	0.1%	0.00825%			
Ammonium Chloride	Proprietary	0.02%	0.00165%			
PolyBreak 5	DCS	Breaker	Hydrogen Peroxide	Proprietary	0.75%	0.04497%
			Stabilizer	Proprietary	0.01%	0.0006%
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: 3/21/2017						
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.