

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: 30-025-43131							
		2. Well Name: RAGNAR FEDERAL COM #025H							
		3. Well Number: 025H							
HYDRAULIC FRACTURING FLUID DISCLOSURE  <input checked="" type="checkbox"/> Original <input type="checkbox"/> Amendment		4. Surface Hole Location: Unit:B    Lot:B    Section:22    Township:17S    Range:32E Feet from:185    N/S Line:N Feet from:2358    E/W Line:E							
		6. Bottom Hole Location: Unit:B    Lot:B    Section:22    Township:17S    Range:32E Feet from:185    N/S Line:N Feet from:2358    E/W Line:E							
		6. latitude:    32.82684019    longitude:    -103.7533559							
		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:    7/25/2016    Frac Performed by:    Pump Co Services		12. Production Type: O							
13. Pool Code(s): 44500		14. Gross Fractured Interval: 6,608 ft to 11,048 ft							
15. True Vertical Depth (TVD): 6,300 ft		16. Total Volume of Fluid Pumped: 5,059,136 gals							
17. Total Volume of Re-Use Water Pumped: 0 gals		18. Percent of Re-Use Water in Fluid Pumped: %							
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%	88.67209%			
DCA-23003	Halliburton	Friction Reducer	Listed Below	Listed Below	0%	0%			
FDP-S1226-15	Halliburton	Surfactant	Listed Below	Listed Below	0%	0%			
FE-1A ACIDIZING COMPOSITION	Halliburton	Additive	Listed Below	Listed Below	0%	0%			
FE-2A	Halliburton	Additive	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, 3307 LB BAG	Halliburton	Proppant	Listed Below	Listed Below	0%	0%			
SAND-CRC LT-40/70, 100 LB SACK	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%			
CAT-106 SI	Catalyst	Scale Inhibitor	Listed Below	Listed Below	0%	0%			
MSDS and Non-MSDS Ingredients are listed below the					0%	0%			
Ingredients	Listed Above	Listed Above	Acetic acid	64-19-7	60%	0.01107%			
			Acetic anhydride	108-24-7	100%	0.01845%			
			Acrylamide	79-06-1	0.01%	0%			
			Acrylamide, sodium acrylate polymer	25987-30-8	30%	0.01398%			
			Alcohols, C12-13, ethoxylated	66455-14-9	30%	0.01394%			
			Alcohols, C12-16, ethoxylated	68551-12-2	5%	0.00232%			
			Citric acid	77-92-9	60%	0.01149%			
			Crystalline silica, quartz	14808-60-7	100%	9.29453%			
			Ethoxylated alcohols	Proprietary	30%	0.00092%			
			Ethoxylated branched C13 alcohol	78330-21-9	5%	0.00233%			
			Ethylene oxide	75-21-8	0.01%	0%			
			Fatty acids, tall oil	Proprietary	30%	0.00092%			
			Glassy calcium magnesium phosphate	65997-17-3	100%	0.01576%			
			Hexamethylenetetramine	100-97-0	2%	0.02102%			
			Hydrochloric acid	7647-01-0	60%	1.10597%			
			Hydrotreated light petroleum distillate	64742-47-8	30%	0.01398%			
			Methanol	67-56-1	60%	0.00183%			
			Olefins	Proprietary	5%	0.00037%			
			Phenol / formaldehyde resin	9003-35-4	5%	0.05255%			
			Phosphonate	Proprietary	15%	0.00533%			
			Propargyl alcohol	107-19-7	10%	0.00031%			
			Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide	68527-49-1	30%	0.00092%			
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	5%	0.00233%			
			Sodium diacetate	126-96-5	5%	0.00233%			
			Sodium perborate tetrahydrate	10486-00-7	100%	0.00506%			
			Sorbitan monooleate polyoxyethylene derivative	9005-65-6	5%	0.00233%			
			Water	7732-18-5	100%	1.93394%			
			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:    Kanicia Carrillo		Title:    Regulatory Analsyt		
			Date:    12/27/2016						
			E-mail Address:    kcarrillo@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.