

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: 30-025-42998				
		2. Well Name: IVAR THE BONELESS FEDERAL #022H				
		3. Well Number: 022H				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:C Lot:C Section:22 Township:17S Range:32E Feet from:105 N/S Line:N Feet from:1423 E/W Line:W 5. Bottom Hole Location: Unit:D Lot:D Section:15 Township:17S Range:32E Feet from:351 N/S Line:N Feet from:971 E/W Line:W 6. latitude: 32.82694697 longitude: -103.7577082 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: 3/13/2016 Frac Performed by: Halliburton		12. Production Type: O				
13. Pool Code(s): 44500		14. Gross Fractured Interval: 6,568 ft to 11,052 ft				
15. True Vertical Depth (TVD): 6,251 ft		16. Total Volume of Fluid Pumped: 3,847,659 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	Fresh Water	7732-18-5	100%	88.80849%
HYDROCHLORIC ACID	Halliburton	Base Fluid	NA	NA	0%	0%
FE-1A ACIDIZING COMPOSITION, FE-2A, FR-66, HAI-OS	Halliburton	Additive, Concentrate, Corrosion Inhibitor, Friction Reducer, Proppant, Scale Preventer, Surfactant	NA	NA	0%	0%
CAT 106 SI	Catalyst Oilfield Services LLC	Scale Inhibitor	NA	NA	0%	0%
			Acetic acid	64-19-7	60%	0.01155%
			Acetic anhydride	108-24-7	100%	0.01925%
			Alcohols ethoxylated	Confidential	5%	0.00438%
			Alcohols, C14-C15, ethoxylated	68951-67-7	30%	0.00096%
			Alkane	Confidential	1%	0.00045%
			Amide	Confidential	5%	0.00438%
			Ammonium chloride	12125-02-9	5%	0.00438%
			Citric acid	77-92-9	60%	0.01198%
			Complex alkylamine	Confidential	5%	0.00227%
			Crystalline silica, quartz	14808-60-7	100%	8.97481%
			Ethylenediaminetetraacetic acid, tetrasodium salt	64-02-8	0.01%	0%
			Fatty acids, tall oil	Confidential	30%	0.00096%
			Glassy calcium magnesium phosphate	65997-17-3	100%	0.01653%
			Glycerine	56-81-5	10%	0.00455%
			Hexamethylenetetramine	100-97-0	2%	0.02211%
			Hydrochloric acid	7647-01-0	60%	1.1859%
			Hydrochloric Acid	7647-01-0	1%	0.00038%
			Hydrogen peroxide	7722-84-1	0.01%	0%
			Hydrotreated light petroleum distillate	64742-47-8	30%	0.02629%
			Methanol	67-56-1	60%	0.00191%
			Nitrotriacetic acid, trisodium salt monohydrate	5064-31-3	0.01%	0%
			Olefins	Confidential	5%	0.00038%
			Phenol / formaldehyde resin	9003-35-4	5%	0.05527%
			Phosphonate Compund	Confidential	60%	0.02295%
			Poly(oxy-1,2-ethanediyl), .alpha.-isodecyl- omega.-hydroxy-	61827-42-7	30%	0.01364%
			Polyacrylamide copolymer	Confidential	30%	0.02629%
			Propargyl alcohol	107-19-7	10%	0.00032%
			Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide	68527-49-1	30%	0.00096%
			Sodium bicarbonate	144-55-8	0.01%	0%
			Sodium chloride	7647-14-5	5%	0.00438%
			Sodium glycolate	2836-32-0	0.01%	0%
			Sodium hydroxide	1310-73-2	0.01%	0%
			Sodium perborate tetrahydrate	10486-00-7	100%	0.0099%
			Sorbitan monooleate	9005-65-6	1%	0.00088%
			polyoxyethylene derivative			
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	1%	0.00088%
			Water	7732-18-5	100%	2.0915%
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: Chasity Jackson		Title: Regulatory Analyst		
Date: 4/15/2016						
E-mail Address: cjackson@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.