

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: 30-025-42514		
		2. Well Name: IVAR THE BONELESS FEDERAL #011H		
		3. Well Number: 011H		
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:D Lot:D Section:22 Township:17S Range:32E Feet from:75 N/S Line:N Feet from:330 E/W Line:W		
		5. Bottom Hole Location: Unit:D Lot:D Section:15 Township:17S Range:32E Feet from:381 N/S Line:N Feet from:331 E/W Line:W		
		6. Istitude: 32.8271195663141 longitude: -103.761821850789		
		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: 8/14/2015 Frac Performed by: Halliburton	12. Production Type: O	
13. Pool Code(s): 44500	14. Gross Fractured Interval: 5,970 ft to 10,448 ft	
15. True Vertical Depth (TVD): 5,742 ft	16. Total Volume of Fluid Pumped: 2,348,227 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%	78.3453%
HYDROCHLORIC ACID	Halliburton	Base Fluid	NA	NA	0%	0%
BC-140, BE-9, HpH BREAKER, LOSURF-360, OPTIFLO-HTE	Halliburton	Biocide, Breaker, Crosslinker, Gelling Agent, Proppant, Scale Preventer, Surfactant	NA	NA	0%	0%
CAT 106 SI	Catalyst Oilfield Services,LLC	Scale Inhibitor	NA	NA	0%	0%
			1,2-Benzisothiazolin-3-one	2634-33-5	0.1%	0%
			Alkane	Confidential	1%	0.00039%
			Bentonite, benzyl(hydrogenated tallow alkyl) dimethylammonium stearate complex	121888-68-4	5%	0.00702%
			C.I. Pigment Red 5	6410-41-9	1%	8E-05%
			Calcium chloride	10043-52-4	0.1%	0%
			Complex alkylamine	Proprietary	5%	0.00195%
			Crystalline silica, quartz	14808-60-7	100%	19.31039%
			Crystalline Silica, Quartz	14808-60-7	0.1%	0.00014%
			Cured acrylic resin	Confidential	30%	0.00244%
			Enzyme	Confidential	5%	0.0004%
			Ethylene glycol	107-21-1	30%	0.0163%
			Ethylenediaminetetraacetic acid, tetrasodium salt	64-02-8	0.01%	0%
			Glassy calcium magnesium phosphate	65997-17-3	100%	0.01678%
			Guar gum	9000-30-0	100%	0.14048%
			Hexamethylenetetramine	100-97-0	2%	0.05278%
			Hydrochloric acid	7647-01-0	60%	1.20707%
			Hydrochloric Acid	7647-01-0	1%	0.00038%
			Monoethanolamine borate	26038-87-9	60%	0.0326%
			Phenol / formaldehyde resin	9003-35-4	5%	0.13195%
			Phosphonate Compound	Confidential	60%	0.02283%
			Poly(oxy-1,2-ethanediyl), ,alpha.-isodecyl- omega.-hydroxy-	61827-42-7	30%	0.01173%
			Silica gel	112926-00-8	1%	0.0014%
			Sodium bicarbonate	144-55-8	0.01%	0%
			Sodium chloride	7647-14-5	30%	0.0001%
			Surfactant mixture	Confidential	1%	0.00281%
			Tributyl tetradecyl phosphonium chloride	81741-28-8	10%	0.00379%
			Walnut hulls	NA	100%	0.00788%
			Water	7732-18-5	100%	2.12678%

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: <u>Signed Electronically</u>	Printed Name: <u>Chasity Jackson</u>	Title: <u>Regulatory Analyst</u>
Date: <u>9/14/2015</u>		
E-mail Address: <u>cjackson@conchoresources.com</u>		

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.