

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 February 15, 2012					
		1. WELL API NO: 30-015-40546					
		2. Well Name: SUBMARINE 11 FEDERAL COM #003H					
		3. Well Number: 003H					
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:E Lot:E Section:11 Township:17S Range:29E Feet from:1605 N/S Line:N Feet from:85 E/W Line:W					
		5. Bottom Hole Location: Unit:H Lot:H Section:11 Township:17S Range:29E Feet from:1698 N/S Line:N Feet from:342 E/W Line:E					
		6. latitude: 32.8520410560021 longitude: - 104.053791472983					
		7. County: Eddy					
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: 3/13/2013 Frac Performed by: Halliburton				12. Production Type: O			
13. Pool Code(s): 97917				14. Gross Fractured Interval: 5,742 ft to 9,699 ft			
15. True Vertical Depth (TVD): 5,225 ft				16. Total Volume of Fluid Pumped: 1,500,000 gals			
17. 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				100%	84.00763%	
HCL Acid	Halliburton				100%	2.16625%	
SSA-2	Halliburton	Sand	Crystalline silica, quartz	14808-60-7	100%	0.30995%	
SAND - PREMIUM BROWN	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	11.01751%	
CRC SAND	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	2.08087%	
			Hexamethylenetetramine	1009-7-0	2%	0.04162%	
			Phenol / formaldehyde resin	900303-35-4	5%	0.10404%	
FDP-S1041-12	Halliburton				100%	0%	
BE-7™	Halliburton	Biocide	Sodium hydroxide	1310-73-2	2%	0.00052%	
			Sodium hypochlorite	7681-52-9	30%	0.00775%	
HpH BREAKER	Halliburton	Breaker	Sodium chloride	7647-14-5	30%	0.00028%	
BC-140 X2	Halliburton	Initiator	Ethylene glycol	107-21-1	30%	0.02328%	
			Monoethanolamine borate	26038-87-9	100%	0.0776%	
SUPERSET W	Halliburton	Activator	Methanol	67-56-1	60%	0.01443%	
			Ethoxylated Nonylphenol	Confidential Business Information	60%	0.01443%	
CAT-1	Halliburton	Catalyst	Sodium hydroxide	1310-73-2	2%	0.00131%	
			Sodium hypochlorite	7681-52-9	30%	0.01964%	
BE-6 MICROBIOCIDE	Halliburton	Biocide	2-Bromo-2-nitro-1,3-propanediol	52-51-7	100%	0%	
K-35	Halliburton	Buffer	Sodium carbonate	497-19-8	100%	0.00067%	
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.19029%	
OPTIFLO-HTE	Halliburton	Breaker	Crystalline silica, quartz	14808-60-7	30%	0.00162%	
			Walnut hulls	Mixture	100%	0.00541%	
Scalechek® SCP-2 Scale Inhibitor	Halliburton	Clay Control	Glassy calcium magnesium phosphate	65997-17-3	100%	0.02757%	
18. 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>9/12/2013</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.