

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
HYDRAULIC FRACTURING FLUID DISCLOSURE <input checked="" type="checkbox"/> Original <input type="checkbox"/> Amendment		1. WELL API NO: 30-025-43286
		2. Well Name: SOMBRERO FEDERAL COM #004H
		3. Well Number: 004H
		4. Surface Hole Location: Unit:M Lot:M Section:13 Township:24S Range:34E Feet from:460 N/S Line:S Feet from:380 E/W Line:W
		5. Bottom Hole Location: Unit:L Lot:L Section:12 Township:24S Range:34E Feet from:2436 N/S Line:S Feet from:377 E/W Line:W
		6. latitude: 32.21153304 longitude: -103.4309694
		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: 2/3/2017 Frac Performed by: Halliburton	12. Production Type: O	
13. Pool Code(s): 96434	14. Gross Fractured Interval: 9,738 ft to 16,510 ft	
15. True Vertical Depth (TVD): 9,617 ft	16. Total Volume of Fluid Pumped: 23,283,750 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%	93.13009%
Sand	TSS	Proppant	Silica Substrate	14808-60-7	100%	6.32793%
15% HCL	Reagent	Acidizing	Hydrochloric Acid	7647-01-0	15%	0.04294%
Chemplex 4-N-1	Chemplex	Combination/Iron Control	2-Ethylhexanol	104-76-7	10%	0.00033%
			Acetic Acid	64-19-7	85%	0.00277%
			Alcohol Ethoxylate Surfactants	Proprietary	2%	7E-05%
			Cocamide Diethanolamine Salt	68603-42-9	2%	7E-05%
			Diethanolamine	111-42-2	2%	7E-05%
			Methyl Alcohol	67-56-1	10%	0.00033%
			n-olefins	Proprietary	1%	3E-05%
			Propargyl Alcohol	107-19-7	1%	3E-05%
			thiourea-formaldehyde copolymer	68527-49-1	2%	7E-05%
Clayplex 650	Chemplex	Clay Control	Ethanaminium, 2-hydroxy-N,N,N-trimethyl-, chloride	67-48-1	0.35%	0.01473%
HiFlow 5	DCS	Viscosifier	Acrylamide P/W Acrylic Adid Ammonium Salt	Proprietary	0.4%	0.04046%
			Petroleum Distillate	Proprietary	0.2%	0.02023%
			Dewaxed Heavy Paraffinic	Proprietary	0.1%	0.01012%
			Hydrotreated Heavy Paraffinic	Proprietary	0.1%	0.01012%
			Ammonium Chloride	Proprietary	0.02%	0.00202%
Plexgel Breaker XPA	Chemplex	Breaker	Hydrogen Peroxide	7722-84-1	7%	0.00023%
Plexslick 957	Chemplex	Friction Reducer	Ammonium Chloride	12125-02-9	5%	0.00039%
			Nonionic Surfactants	Proprietary	1.5%	0.00012%
			Paraffinic, Naphtehenic Solvent	64742-47-8	30%	0.00234%
			Poly (acrylamide-co-acrylic acid), partial sodium salt	62649-23-4	35%	0.00273%
Plexsurf 240E	Chemplex	Non Ionic Surfactant	Methyl Alcohol	67-56-1	20%	0.00702%
			Alcohol Alkoxylate	Proprietary	20%	0.00702%
PolyBreak 5	DCS	Breaker	Hydrogen Peroxide	Proprietary	0.75%	0.04724%
			Stabilizer	Proprietary	0.01%	0.00063%

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>Stormi Davis</u>	Title: <u>Regulatory Analyst</u>
Date: <u>3/27/2017</u>		
E-mail Address: <u>sdavis@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.