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. 30-015-38507

2. Well Name: COTTONMOUTH 24 FEDERAL COM #001H

3. Well Number: 001H

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:M Lot:M Section:24 Township:26S Range:28E
Feet from:105 N/S Line:S
Feet from:745 E/W Line:W

5. Bottom Hole Location:
Unit:D Lot: Section:24 Township:26S Range:28E
Feet from:340 N/S Line:N
Feet from:760 E/W Line:W

6. latitude: 32.0212340645421 longitude: -104.04679961853

7. County: Eddy

8. Operator Name and Address:
COG PRODUCTION, LLC
600 W. Illinois Ave
Midland 79701

9. OGRID: 217955

10. Phone Number: 432-685-4372

11. Last Fracture Date: 1/16/2014 Frac Performed by: Halliburton

12. Production Type: O

13. Pool Code(s): 59170

14. Gross Fractured Interval: 6,534 ft to 10,964 ft

15. True Vertical Depth (TVD): 6,257 ft

16. Total Volume of Fluid Pumped: 2,157,304 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				100%	85.32835%
FE ACID - 7.5% HCL	Halliburton		Hydrochloric acid	7647-01-0	10%	0.22178%
Premium Brown 20/40	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	8.36938%
CRC - 20/40	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	3.58835%
			Hexamethylenetetramine	100-97-0	2%	0.07177%
			Phenol / formaldehyde resin	9003-35-4	5%	0.17942%
LOSURF-360	Halliburton	Surfactant			100%	0%
BE-9	Halliburton	Biocide	Tributyl tetradecyl phosphonium chloride	81741-28-8	10%	0.00409%
CLA-STA XP ADDITIVE	Halliburton	Clay Stabilizer	Polyepichlorohydrin, trimethyl amine quaternized	51838-31-4	60%	0.00685%
Cla-Web™	Halliburton	Additive	Ammonium salt	Confidential Business Information	60%	0.02786%
SUPERSET W	Halliburton	Activator	Methanol	67-56-1	60%	0.05387%
			Ethoxylated nonylphenol	Confidential Business Information	60%	0.05387%
BC-140 X2	Halliburton	Initiator	Ethylene glycol	107-21-1	30%	0.0228%
			Monoethanolamine borate	26038-87-9	100%	0.07599%
HpH BREAKER	Halliburton	Breaker	Sodium chloride	7647-14-5	30%	0.00013%
D-AIR 3000L	Halliburton	Defoamer	Alkenes	Confidential Business Information	100%	0.0004%
			Silica, amorphous precipitated	67762-90-7	30%	0.00012%
Scaletrol (TP)	Third Party				100%	0%
BE-6 MICROBIOCIDE	Halliburton	Biocide	2-Bromo-2-nitro-1,3-propanediol	52-51-7	100%	0.00011%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.17854%
OPTIFLO-HTE	Halliburton	Breaker	Crystalline silica, quartz	14808-60-7	30%	0.00282%
			Walnut hulls	Mixture	100%	0.00939%
Scalechek® SCP-2 Scale Inhibitor	Halliburton	Scale Preventer	Glassy calcium magnesium phosphate	65997-17-3	100%	0.02134%
Parasorb (TP)	Third Party				100%	0.02134%
Ingredients Listed Below This Line Are Part of the			1,2-Benzisothiazolin-3-one	2634-33-5	0%	0%
			2,7-Naphthalenedisulfonic acid, 3-hydroxy-4-[(4-sulfor-1-naphthalenyl) azo] -, trisodium salt	915-67-3	0%	0%
			Acetic acid	64-19-7	0%	0%
			Acetic anhydride	108-24-7	0%	0%
			Amine salts	Confidential Business Information	0%	0%
			Amine salts	Confidential Business Information	0%	0%
			Bentonite, benzyl (hydrogenated tallow alkyl) dimethylammonium stearate complex	121888-68-4	0%	0%
			C.I. Pigment Red 5	6410-41-9	0%	0%
			Calcium chloride	10043-52-4	0%	0%
			Citric acid	77-92-9	0%	0%
			Crystalline Silica, Quartz	14808-60-7	0%	0%
			Cured acrylic resin	Confidential Business Information	0%	0%
			Cured acrylic resin	Confidential Business Information	0%	0%
			Enzyme	Confidential Business Information	0%	0%
			Enzyme	Confidential Business Information	0%	0%
			Polypropylene glycol	25322-69-4	0%	0%
			Quaternary amine	Confidential Business Information	0%	0%
			Quaternary amine	Confidential Business Information	0%	0%
			Quaternary amine	Confidential Business Information	0%	0%
			Silica gel	112926-00-8	0%	0%
			Sodium chloride	7647-14-5	0%	0%
			Surfactant mixture	Confidential Business Information	0%	0%
			Surfactant mixture	Confidential Business Information	0%	0%
			Trimethylamine, N-oxide	1184-78-7	0%	0%
			Water	7732-18-5	0%	0%

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: Stormi Davis Title: Senior Regulatory Analyst

Date: 7/29/2014

E-mail Address: sdavis@concho.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.