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. 30-025-40858

2. Well Name: SOPAPILLA STATE #002H

3. Well Number: 002H

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:N Lot:N Section:2 Township:23S Range:33E
Feet from:190 N/S Line:S
Feet from:2260 E/W Line:W

5. Bottom Hole Location:
Unit:C Lot:3 Section:2 Township:23S Range:33E
Feet from:413 N/S Line:N
Feet from:2219 E/W Line:W

6. latitude: 32.3270151239582 longitude: -103.544328112471

7. County: Lea

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: 2/28/2015 Frac Performed by: Halliburton

12. Production Type: O

13. Pool Code(s): 7320

14. Gross Fractured Interval: 11,276 ft to 15,380 ft

15. True Vertical Depth (TVD): 11,015 ft

16. Total Volume of Fluid Pumped: 6,414,642 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%	47.1568%
FE Acid < 10%	Halliburton				100%	1.04027%
100 Mesh	Halliburton				100%	3.13982%
Premium White - 40/70	Halliburton				100%	9.87771%
Premium White 30/50	Halliburton				100%	34.29138%
LOSURF-360W	Halliburton	Surfactant	Complex alkylamine	Confidential	5%	0.00972%
			Glycerine	56-81-5	10%	0.01944%
			Poly(oxy-1,2-ethanediyl), .alpha.-isodecyl-.omega.-hydroxy-	61827-42-7	30%	0.05832%
BE-9	Halliburton	Biocide	Tributyl tetradecyl phosphonium chloride	81741-28-8	10%	0.0185%
CLA-STA XP ADDITIVE	Halliburton	Clay Stabilizer	Polyepichlorohydrin, trimethyl amine quaternized	51838-31-4	60%	0.04032%
Cla-Web(TM)	Halliburton	Additive	Ammonium salt	Confidential	60%	0.12505%
MO-67	Halliburton	pH Control Additive	Sodium hydroxide	1310-73-2	30%	0.0155%
CL-31 CROSSLINKER	Halliburton	Crosslinker	Potassium hydroxide	1310-58-3	5%	0.00276%
			Potassium metaborate	13709-94-9	60%	0.03308%
CL-22 UC	Halliburton	Crosslinker	Potassium formate	590-29-4	60%	0.06521%
SALT	Halliburton	Additive	Sodium chloride	7647-14-5	100%	0.2056%
SP BREAKER	Halliburton	Breaker	Sodium persulfate	7775-27-1	100%	0.30139%
BE-6 MICROBIOCIDE	Halliburton	Biocide	2-Bromo-2-nitro-1,3-propanediol	52-51-7	100%	0.00017%
OPTIFLO-III DELAYED RELEASE BREAKER	Halliburton	Breaker	Ammonium persulfate	7727-54-0	100%	0.02259%
			Crystalline silica, quartz	14808-60-7	30%	0.00678%
Scalechek(R) SCP-2 Scale Inhibitor	Halliburton	Scale Preventer	Glassy calcium magnesium phosphate	65997-17-3	100%	0.07635%
SP BREAKER	Halliburton	Breaker	Sodium persulfate	7775-27-1	100%	0.00146%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	2.93964%
SALT	Halliburton	Additive	Sodium chloride	7647-14-5	100%	0.07635%
Ingredients Listed Below This Line Are Part of the			Acrylate polymer	Confidential	0%	0%
			Alkane	Confidential	0%	0%
			Amine salts	Confidential	0%	0%
			Amine salts	Confidential	0%	0%
			Bentonite, benzyl(hydrogenated tallow alkyl) dimethylammonium stearate complex	121888-68-4	0%	0%
			Borate salts	Confidential	0%	0%
			Crystalline silica, quartz	14808-60-7	0%	0%
			Cured acrylic resin	Confidential	0%	0%
			Ethylenediaminetetraacetic acid, tetrasodium salt	64-02-8	0%	0%
			Hydrogen peroxide	7722-84-1	0%	0%
			Nitrotriacetic acid, trisodium salt monohydrate	5064-31-3	0%	0%
			Quaternary amine	Confidential	0%	0%
			Quaternary amine	Confidential	0%	0%
			Quaternary amine	Confidential	0%	0%
			Silica gel	112926-00-8	0%	0%
			Sodium bicarbonate	144-55-8	0%	0%
			Sodium carboxymethyl cellulose	9004-32-4	0%	0%
			Sodium chloride	7647-14-5	0%	0%
			Sodium glycollate	2836-32-0	0%	0%
			Sodium hydroxide	1310-73-2	0%	0%
			Sodium sulfate	7757-82-6	0%	0%
			Surfactant mixture	Confidential	0%	0%
			Surfactant mixture	Confidential	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: 4/24/2015

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.