

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 8, 2013

HYDRAULIC FRACTURING FLUID  
DISCLOSURE

☒ Original  
☐ Amendment

4. Surface Hole Location:  
Unit:D    Lot:1    Section:19    Township:26S    Range:27E  
Feet from:50    N/S Line:N  
Feet from:660    E/W Line:W

5. Bottom Hole Location:  
Unit:M    Lot:4    Section:30    Township:26S    Range:27E  
Feet from:341    N/S Line:S  
Feet from:715    E/W Line:W

6. latitude:    longitude:  
32.0350260031148    -104.235647437869

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:    5/17/2016    Frac Performed by:    Halliburton

12. Production Type:  
O

13. Pool Code(s):  
64010

14. Gross Fractured Interval:  
7,650 ft to 17,440 ft

15. True Vertical Depth (TVD):  
7,497 ft

16. Total Volume of Fluid Pumped:  
10,000,000 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%                                                     | 83.67801%                                                |
| HYDROCHLORIC ACID                                  | Halliburton  | Solvent                                                                                              | NA                                                                                            | NA                                  | 0%                                                       | 0%                                                       |
| BC-140 X2, Cla-Web(TM) II, DCA-23003, FDP-S1226-15 | Halliburton  | Additive, Breaker, Concentrate, Corrosion Inhibitor, Enzyme, Friction Reducer, Gelling Agent, Initia | NA                                                                                            | NA                                  | 0%                                                       | 0%                                                       |
| WG-36 GELLING AGENT                                | Halliburton  | Scale Preventer, Surfactant                                                                          | NA                                                                                            | NA                                  | 0%                                                       | 0%                                                       |
| Parasorb, Scaletrol                                | Baker Hughes | Corrosion Inhibitor, Scale Inhibitor                                                                 | NA                                                                                            | NA                                  | 0%                                                       | 0%                                                       |
|                                                    |              |                                                                                                      | T,2-Benzisothiazolin-3-one                                                                    | 2634-33-5                           | 0.1%                                                     | 0%                                                       |
|                                                    |              |                                                                                                      | 2,7-Naphthalenedisulfonic acid, 3-hydroxy-4-[(4-sulfor-1-naphthalenyl) azo] -, trisodium salt | 915-67-3                            | 0.1%                                                     | 3E-05%                                                   |
|                                                    |              |                                                                                                      | Acrylamide                                                                                    | 79-06-1                             | 0.01%                                                    | 0%                                                       |
|                                                    |              |                                                                                                      | Acrylamide, sodium acrylate polymer                                                           | 25987-30-8                          | 30%                                                      | 0.00174%                                                 |
|                                                    |              |                                                                                                      | Alcohols, C12-13, ethoxylated                                                                 | 66455-14-9                          | 30%                                                      | 0.0151%                                                  |
|                                                    |              |                                                                                                      | Alcohols, C12-16, ethoxylated                                                                 | 68551-12-2                          | 5%                                                       | 0.00252%                                                 |
|                                                    |              |                                                                                                      | Alcohols, C14-C15, ethoxylated                                                                | 68951-67-7                          | 30%                                                      | 0.00022%                                                 |
|                                                    |              |                                                                                                      | Amine                                                                                         | Confidential                        | 0.1%                                                     | 1E-05%                                                   |
|                                                    |              |                                                                                                      | Amine salts                                                                                   | Confidential                        | 1%                                                       | 0.00116%                                                 |
|                                                    |              |                                                                                                      | Ammonium compound                                                                             | Confidential                        | 30%                                                      | 0.01692%                                                 |
|                                                    |              |                                                                                                      | Bentonite, benzyl (hydrogenated tallow alkyl) dimethylammonium stearate complex               | 121888-68-4                         | 5%                                                       | 0.00695%                                                 |
|                                                    |              |                                                                                                      | C.I. Pigment Red 5                                                                            | 6410-41-9                           | 1%                                                       | 5E-05%                                                   |
|                                                    |              |                                                                                                      | Calcium chloride                                                                              | 10043-52-4                          | 5%                                                       | 0.0015%                                                  |
|                                                    |              |                                                                                                      | Chlorine compound                                                                             | Confidential                        | 30%                                                      | 0.01692%                                                 |
|                                                    |              |                                                                                                      | Citrus, extract                                                                               | 94266-47-4                          | 10%                                                      | 0.00503%                                                 |
|                                                    |              |                                                                                                      | Crystalline Silica                                                                            | 14808-60-7                          | 1%                                                       | 0.00013%                                                 |
|                                                    |              |                                                                                                      | Crystalline silica, quartz                                                                    | 14808-60-7                          | 100%                                                     | 15.03584%                                                |
|                                                    |              |                                                                                                      | Crystalline Silica, Quartz                                                                    | 14808-60-7                          | 0.1%                                                     | 0.00014%                                                 |
|                                                    |              |                                                                                                      | Cured acrylic resin                                                                           | Confidential                        | 30%                                                      | 0.00164%                                                 |
|                                                    |              |                                                                                                      | Diatomaceous Earth                                                                            | 91053-39-3                          | 60%                                                      | 0.00773%                                                 |
|                                                    |              |                                                                                                      | Enzyme                                                                                        | Confidential                        | 5%                                                       | 0.00026%                                                 |
|                                                    |              |                                                                                                      | Enzyme                                                                                        | Confidential                        | 5%                                                       | 1E-05%                                                   |
|                                                    |              |                                                                                                      | Ethoxylated branched C13 alcohol                                                              | 78330-21-9                          | 5%                                                       | 0.00029%                                                 |
|                                                    |              |                                                                                                      | Ethylene glycol                                                                               | 107-21-1                            | 30%                                                      | 0.01738%                                                 |
|                                                    |              |                                                                                                      | Ethylene oxide                                                                                | 75-21-8                             | 0.01%                                                    | 1E-05%                                                   |
|                                                    |              |                                                                                                      | Fatty acids, tall oil                                                                         | Confidential                        | 30%                                                      | 0.00022%                                                 |
|                                                    |              |                                                                                                      | FD&C Blue 1                                                                                   | 3844-45-9                           | 5%                                                       | 1E-05%                                                   |
|                                                    |              |                                                                                                      | Glassy calcium magnesium phosphate                                                            | 65997-17-3                          | 100%                                                     | 0.01656%                                                 |
|                                                    |              |                                                                                                      | Glycerine                                                                                     | 56-81-5                             | 30%                                                      | 5E-05%                                                   |
|                                                    |              |                                                                                                      | Guar gum                                                                                      | 9000-30-0                           | 100%                                                     | 0.1388%                                                  |
|                                                    |              |                                                                                                      | Hexamethylenetetramine                                                                        | 100-97-0                            | 2%                                                       | 0.05952%                                                 |
|                                                    |              |                                                                                                      | Hydrochloric acid                                                                             | 7647-01-0                           | 60%                                                      | 0.55928%                                                 |
|                                                    |              |                                                                                                      | Hydrotreated light petroleum distillate                                                       | 64742-47-8                          | 30%                                                      | 0.00174%                                                 |
|                                                    |              |                                                                                                      | Isopropanol                                                                                   | 67-63-0                             | 30%                                                      | 0.0151%                                                  |
|                                                    |              |                                                                                                      | Methanol                                                                                      | 67-56-1                             | 60%                                                      | 0.00044%                                                 |
|                                                    |              |                                                                                                      | Mineral Oil                                                                                   | 8042-47-5                           | 30%                                                      | 0.00386%                                                 |
|                                                    |              |                                                                                                      | Monoethanolamine borate                                                                       | 26038-87-9                          | 100%                                                     | 0.02789%                                                 |
|                                                    |              |                                                                                                      | Olefins                                                                                       | Confidential                        | 5%                                                       | 9E-06%                                                   |
|                                                    |              |                                                                                                      | Phenol / formaldehyde resin                                                                   | 9003-35-4                           | 5%                                                       | 0.14881%                                                 |
|                                                    |              |                                                                                                      | Propargyl alcohol                                                                             | 107-19-7                            | 10%                                                      | 7E-05%                                                   |
|                                                    |              |                                                                                                      | Quaternary amine                                                                              | Confidential                        | 1%                                                       | 0.00138%                                                 |
|                                                    |              |                                                                                                      | Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide | 68527-49-1                          | 30%                                                      | 0.00138%                                                 |
|                                                    |              |                                                                                                      | Silica gel                                                                                    | 112926-00-8                         | 1%                                                       | 0.00139%                                                 |
|                                                    |              |                                                                                                      | Sorbitan, mono-9-octadecenoate, (Z)                                                           | 1338-43-8                           | 5%                                                       | 0.00029%                                                 |
|                                                    |              |                                                                                                      | Sodium chloride                                                                               | 7647-14-5                           | 5%                                                       | 0.00291%                                                 |
|                                                    |              |                                                                                                      | Sodium diacetate                                                                              | 126-96-5                            | 5%                                                       | 0.00029%                                                 |
|                                                    |              |                                                                                                      | Sodium hydroxide                                                                              | 1310-73-2                           | 30%                                                      | 0.00291%                                                 |
|                                                    |              |                                                                                                      | Sodium perborate tetrahydrate                                                                 | 10486-00-7                          | 100%                                                     | 0.001%                                                   |
|                                                    |              |                                                                                                      | Sorbitan monooleate polyoxyethylene derivative                                                | 9005-65-6                           | 5%                                                       | 0.00029%                                                 |
|                                                    |              |                                                                                                      | Surfactant mixture                                                                            | Confidential                        | 1%                                                       | 0.00278%                                                 |
|                                                    |              |                                                                                                      | Walnut hulls                                                                                  | NA                                  | 100%                                                     | 0.00527%                                                 |
|                                                    |              |                                                                                                      | Water                                                                                         | 7732-18-5                           | 100%                                                     | 1.02282%                                                 |

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:    Regulatory Analyst

Date:    6/22/2016

E-mail Address:    sdavis@conchoresources.com

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