

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

1. WELL API NO.
30-025-43171

2. Well Name:
AZORES FEDERAL #011H

3. Well Number:
011H

HYDRAULIC FRACTURING FLUID
DISCLOSURE

☒ Original
☐ Amendment

4. Surface Hole Location:
Unit:B Lot:B Section:32 Township:24S Range:32E
Feet from:210 Feet from:2470 N/S Line:N E/W Line:E

5. Bottom Hole Location:
Unit:B Lot:B Section:29 Township:24S Range:32E
Feet from:62 Feet from:2309 N/S Line:N E/W Line:E

6. latitude: longitude:
32.18059698 -103.6961349

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: 10/26/2016 Frac Performed by: Halliburton

12. Production Type:
O

13. Pool Code(s):
97899

14. Gross Fractured Interval:
9,390 ft to 14,340 ft

15. True Vertical Depth (TVD):
9,129 ft

16. Total Volume of Fluid Pumped:
16,380,281 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	Water	7732-18-5	100%	89.82118%
Cla-Webb(TM) II	Halliburton	Clay Stabilizer	Listed Below	Listed Below	0%	0%
DCA-23003	Halliburton	Friction Reducer	Listed Below	Listed Below	0%	0%
FDP-S1228-15	Halliburton	Surfactant	Listed Below	Listed Below	0%	0%
FE-1A ACIDIZING COMPOSITION	Halliburton	Additive	Listed Below	Listed Below	0%	0%
FE-2A	Halliburton	Additive	Listed Below	Listed Below	0%	0%
HAI-OS ACID INHIBITOR	Halliburton	Corrosion Inhibitor	Listed Below	Listed Below	0%	0%
HYDROCHLORIC ACID	Halliburton	Solvent	Listed Below	Listed Below	0%	0%
N-ZYME 3	Halliburton	Enzyme	Listed Below	Listed Below	0%	0%
OPTIFLO-HTE	Halliburton	Breaker	Listed Below	Listed Below	0%	0%
OptiKleen-WF(TM)	Halliburton	Concentrate	Listed Below	Listed Below	0%	0%
SAND-COMMON WHITE-100 MESH, SSA-2, BULK (100003676	Halliburton	Proppant	Listed Below	Listed Below	0%	0%
SAND-PREMIUM WHITE-40/70, BULK	Halliburton	Proppant	Listed Below	Listed Below	0%	0%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Listed Below	Listed Below	0%	0%
Parasorb 5000	Baker Hughes	Paraffin Inhibitor	Listed Below	Listed Below	0%	0%
Scalesorb 12	Baker Hughes	Scale Inhibitor	Listed Below	Listed Below	0%	0%
Scaletrol 720	Baker Hughes	Scale Inhibitor	Listed Below	Listed Below	0%	0%
ACS 100	Brenntag	Biocide	Listed Below	Listed Below	0%	0%
ACS 200	Brenntag Southwest, Inc.	Biocide	Listed Below	Listed Below	0%	0%
ACS 300	Occidental Chemical Corporation	Biocide	Listed Below	Listed Below	0%	0%
MSDS and Non-MSDS Ingredients are listed below the					0%	0%
Ingredients	Listed Above	Listed Above	1,2-Benzisothiazolin-3-one Acetic acid Acetic anhydride Acrylamide Acrylamide, sodium acrylate polymer Alcohols, C12-13, ethoxylated Alcohols, C12-16, ethoxylated Amine Amine salts Ammonium compound C.I. Pigment Red 5 Calcium Shloride (CaCl2) Chlorine compound Citric acid Crystalline silica Crystalline silica, quartz Crystalline silica: Quartz Cured acrylic resin Diatomaceous earth, calcined Enzyme Ethoxylated alcohols Ethoxylated branched C13 alcohol Ethylene glycol Ethylene oxide Fatty acids, tall oil FD&C Blue 1 Glycerine Glycosidase Guar gum Hydrochloric acid Hydrogen chloride Hydrotreated light petroleum distillate Methanol Mineral oil Olefins Organophosphorous salt Propargyl alcohol Quaternary amine Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide Sorbitan, mono-9-octadecenoate, (Z) Sodium chloride Sodium chlorite Sodium diacetate Sodium hydroxide Sodium hypochlorite Sodium perborate tetrahydrate Sorbitan monooleate polyoxyethylene derivative Walnut hulls Water	2634-33-5 64-19-7 108-24-7 79-06-1 25987-30-8 66455-14-9 68551-12-2 Proprietary Proprietary Proprietary 6410-41-9 10043-52-4 Proprietary 77-92-9 14808-60-7 14808-60-7 14808-60-7 Proprietary 91053-39-3 Proprietary Proprietary 78330-21-9 107-21-1 75-21-8 Proprietary 3844-45-9 56-81-5 9032-92-2 9000-30-0 7647-01-0 7647-01-0 64742-47-8 67-56-1 8042-47-5 Proprietary Trade Secret 107-19-7 Proprietary 68527-49-1 1338-43-8 7647-14-5 7758-19-2 126-96-5 001310-73-2 007681-52-9 10486-00-7 9005-65-6 Not Assigned 7732-18-5	0.1% 60% 100% 0.01% 30% 30% 5% 0.1% 1% 30% 1% 5% 30% 60% 0.1% 30% 60% 15% 30% 60% 30% 5% 30% 35% 10% 1% 30% 5% 100% 13% 100% 5% 100% 100%	0% 0.00111% 0.00184% 1E-05% 0.02363% 0.01385% 0.00231% 5E-06% 0.00054% 0.01466% 1E-05% 0.00133% 0.01466% 0.00115% 1E-05% 9.82712% 3E-05% 0.00025% 0.00598% 4E-05% 9E-05% 0.00394% 0.008% 0% 9E-05% 0% 3E-05% 0.00077% 4E-05% 0.00322% 3E-05% 0.00098% 9E-05% 0.00394% 0.0014% 0.00264% 0.00394% 0.00011% 0.0007% 0.00857% 0.00394% 0.00081% 0.23019%

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

Date: 3/21/2017

E-mail Address: sdavis@concho.com

Senior Regulatory
Title: Analyst

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