

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:
30-025-42293

2. Well Name:
BLACK PEARL 1 FEDERAL #002H

3. Well Number:
002H

HYDRAULIC FRACTURING FLUID
DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:B Lot:2 Section:1 Township:20S Range:34E
Feet from:190 N/S Line:N
Feet from:1090 E/W Line:E

5. Bottom Hole Location:
Unit:A Lot:1 Section:1 Township:20S Range:34E
Feet from:340 N/S Line:S
Feet from:1982 E/W Line:E

6. latitude: longitude:
32.6091214941298 -103.508846988269

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: 8/28/2015 Frac Performed by: Halliburton

12. Production Type:
O

13. Pool Code(s):
37570

14. Gross Fractured Interval:
11,149 ft to 15,476 ft

15. True Vertical Depth (TVD):
10,991 ft

16. Total Volume of Fluid Pumped:
7,248,232 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%	88.29134%
HYDROCHLORIC ACID	Halliburton	Base Fluid	NA	NA	0%	0%
BE-9, CL-28M CROSSLINKER, CL-31 CROSSLINKER, CLA-S	Halliburton	Additive, Biocide, Breaker, Clay Stabilizer, Clay Corrosion Inhibitor, Crosslinker, Gelli	NA	NA	0%	0%
SAND-COMMON WHITE-100 MESH, SSA-2, BULK (100003676	Halliburton	Scale Preventer, Surfactant	NA	NA	0%	0%
Parasorb 5000, Scaletrol 720	Baker Hughes	Additive, Scale Inhibitor	NA Alcohols, C14-C15, ethoxylated Alkane Aluminum oxide Aluminum silicate Amine salts Ammonium persulfate Ammonium salt Bentonite, benzyl(hydrogenated tallow alkyl) dimethylammonium stearate complex Borate salts Calcium Chloride Complex alkylamine Crystalline silica Crystalline silica, cristobalite Crystalline silica, quartz Crystalline silica, quartz Cured acrylic resin Diatomaceous earth, calcined Ethylene Glycol Ethylenediaminetetraacetic acid, tetrasodium salt Fatty acids, tall oil Glassy calcium magnesium phosphate Guar gum Inorganic mineral Iron oxide Methanol Mineral oil Hydrochloric Acid Olefins Poly(oxy-1,2-ethanediyl), ,alpha -isodecyl- omega -hydroxy-amine quaternized Polyepichlorohydrin, trimethylamine quaternized Polymer Potassium hydroxide Potassium metaborate Propargyl alcohol Quaternary amine Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide Silica gel Sintered bauxite Sodium bicarbonate Sodium chloride Sodium hydroxide Sodium persulfate Sodium sulfate Surfactant mixture Titanium dioxide Tributyl tetradecyl phosphonium chloride Trimethylamine, N-oxide Water	NA 68951-67-7 Confidential 1344-28-1 1302-76-7 Confidential 7727-54-0 Confidential 121888-68-4 Confidential 10043-52-4 Proprietary 14808-60-7 14464-46-1 14808-60-7 14808-60-7 14808-60-7 Confidential 91053-39-3 107-21-1 64-02-8 Confidential 65997-17-3 9000-30-0 Confidential 1309-37-1 67-56-1 8042-47-5 7647-01-0 Confidential 61827-42-7 51838-31-4 Proprietary 1310-58-3 13709-94-9 107-19-7 Confidential 68527-49-1 112926-00-8 1318-16-7 144-55-8 7647-14-5 1310-73-2 7775-27-1 7757-82-6 Confidential 13463-67-7 81741-28-8 1184-78-7 7732-18-5	0% 30% 1% 5% 10% 0.1% 100% 60% 5% 60% 5% 5% 5% 1% 100% 100% 1% 5% 5% 1% 60% 30% 60% 30% 100% 0.1% 1% 1% 60% 30% 100% 0.1% 1% 1% 30% 30% 100% 0.01% 30% 100% 100% 5% 30% 5% 5% 10% 5% 100% 1% 100% 0.01% 5% 30% 100% 0.1% 1% 1% 10% 5% 100%	0% 0.00046% 0.00045% 0.05897% 0.11794% 0.00071% 0.00502% 0.0295% 0.00688% 0.01255% 0.00133% 0.00228% 8E-05% 0.05897% 9.25407% 0.00014% 0.00151% 0.00498% 0.00798% 0% 0.00046% 0.01682% 0.13766% 0.00105% 0.01179% 0.00093% 0.00249% 0.88903% 0.00019% 0.01357% 0.00896% 0.00021% 0.00046% 0.00563% 0.00015% 0.003% 0.00046% 0.00138% 1.17942% 0% 0.00255% 0.00265% 0.00049% 0% 0.00275% 0.01179% 0.00439% 0.00075% 0.15859%

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: 9/10/2015

E-mail Address: sdavis@conchoresources.com

NMOCDD does not require the reporting of information beyond MSDS data as described in 29 CFR 1910.1200. NMOCDD does not require the reporting or disclosure of proprietary, trade secret or confidential business information.