

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:
30-015-43131

2. Well Name:
GLACIER FEDERAL COM #001H

3. Well Number:
001H

HYDRAULIC FRACTURING FLUID
DISCLOSURE

☒ Original
☐ Amendment

4. Surface Hole Location:
Unit:A Lot:A Section:24 Township:26S Range:25E
Feet from:330 N/S Line:N
Feet from:560 E/W Line:E

5. Bottom Hole Location:
Unit:A Lot:A Section:12 Township:26S Range:25E
Feet from:669 N/S Line:N
Feet from:710 E/W Line:E

6. latitude:
32.0343338421524 longitude:
-104.342516905789

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: 9/16/2015 Frac Performed by: Halliburton

12. Production Type:
G

13. Pool Code(s):
98159

14. Gross Fractured Interval:
13,570 ft to 18,135 ft

15. True Vertical Depth (TVD):
8,355 ft

16. Total Volume of Fluid Pumped:
2,162,304 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	Base Fluid	Fresh Water	7732-18-5	100%	71.43137%
HYDROCHLORIC ACID	Halliburton	Base Fluid	NA	NA	0%	0%
BC-140 X2, BE-9, Cla-Web(TM), FR-66, HAI-OS ACID I	Halliburton	Additive, Biocide, Breaker, Concentrate, Corrosion Inhibitor, Friction Reducer, Gelling Agent, Initi	NA	NA	0%	0%
NA	Halliburton	Scale Preventer, Surfactant	NA	NA	0%	0%
Parasorb	Baker Hughes, Inc.	Additive	NA	NA	0%	0%
Scaletrol	Baker Hughes, Inc.	Scale Inhibitor	1,2-Benzisothiazolin-3-one 2,7-Naphthalenedisulfonic acid, 3-hydroxy-4-[(4-sulfor-1-naphthalenyl) azo] -, trisodium salt Alcohols ethoxylated Alcohols, C14-C15, ethoxylated Alkane Amide Amine salts Ammonium chloride Ammonium salt Bentonite, benzyl(hydrogenated tallow alkyl) dimethylammonium stearate complex C.I. Pigment Red 5 Calcium chloride Calcium chloride Calcium Chloride Complex alkylamine Crystalline silica- Quartz Crystalline silica, quartz Crystalline Silica, Quartz Cured acrylic resin Diatomaceous earth, calcined Enzyme Ethylene glycol Ethylene Glycol Ethylenediaminetetraacetic acid, tetrasodium salt Fatty acids, tall oil Glassy calcium magnesium phosphate Guar gum Hexamethylenetetramine Hydrochloric acid Hydrotreated light petroleum distillate Methanol Mineral oil Monoethanolamine borate Olefins Phenol / formaldehyde resin Poly(oxy-1,2-ethanediy), alpha -isodecyl- omega -hydroxy- Polyacrylamide copolymer Propargyl alcohol Quaternary amine Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide Silica gel Sodium bicarbonate Sodium chloride Sodium hydroxide Sodium perborate tetrahydrate Sorbitan monooleate polyoxyethylene derivative Sorbitan, mono-9-octadecenoate, (Z) Surfactant mixture Tributyl tetradecyl phosphonium chloride Walnut hulls Water	2634-33-5 915-67-3 Confidential 68951-67-7 Confidential Confidential Confidential 12125-02-9 Confidential 121888-68-4 6410-41-9 10043-52-4 10043-52-4 Proprietary 14808-60-7 14808-60-7 Confidential 91053-39-3 Confidential 107-21-1 107-21-1 64-02-8 Confidential 65997-17-3 9000-30-0 100-97-0 7647-01-0 64742-47-8 67-56-1 08042-47-5 26038-87-9 Confidential 9003-35-4 61827-42-7 Confidential 107-19-7 Confidential 68527-49-1 112926-00-8 144-55-8 7647-14-5 1310-73-2 10486-00-7 9005-65-6 1338-43-8 Confidential 81741-28-8 NA 7732-18-5	0.1% 0.1% 5% 30% 1% 5% 60% 5% 1% 0.1% 100% 5% 5% 60% 30% 30% 30% 30% 30% 30% 30% 100% 2% 60% 30% 5% 5% 30% 10% 100% 100%	5E-05% 4E-05% 0.00011% 0.00079% 0.00102% 0.00011% 0.00022% 0.00011% 0.06648% 0.01011% 0.0001% 5E-05% 6E-05% 0.00508% 0.01426% 26.73889% 0.0002% 0.00309% 0.00024% 0.00101% 0.0127% 0.00035% 1E-05% 0.00079% 0.05942% 0.20215% 0.107% 0.65458% 0.00066% 0.00026% 0.00676% 0.00079% 0.00202% 1E-05% 0.02146% 0.01055% 0.00014% 2E-05% 2E-05% 0.00404% 0.00989% 0.00989% 1.47645%

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: 10/6/2015

E-mail Address: sdavis@conchoresources.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.