

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:D Section:12 Township:21S Range:33E
Feet from:160 N/S Line:N
Feet from:496 E/W Line:W

5. Bottom Hole Location:
Unit:M Lot:M Section:12 Township:21S Range:33E
Feet from:341 N/S Line:S
Feet from:545 E/W Line:W

6. latitude: longitude:
32.5000725 -103.5330048

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: 6/28/2015 Frac Performed by: Halliburton

12. Production Type:
O

13. Pool Code(s):
5535

14. Gross Fractured Interval:
11,802 ft to 16,160 ft

15. True Vertical Depth (TVD):
11,639 ft

16. Total Volume of Fluid Pumped:
6,957,090 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%	88.39609%
HYDROCHLORIC ACID	Halliburton	Base Fluid	NA	NA	0%	0%
BE-6 MICROBIOCIDE, BE-9, CL-28M CROSSLINKER, CL-31	Halliburton	Additive, Biocide, Breaker, Clay Stabilizer, Corrosion Inhibitor, Crosslinker, Defo	NA	NA	0%	0%
PROP-RC CERAMIC-30/50, BULK, SAND-COMMON WHITE-100	Halliburton	pH Control Additive, Proppant, Scale Preventer, Surfactant	NA	NA	0%	0%
Parasorb 5000, Scaletrol 720	Baker Hughes	Additive, Scale Inhibitor	NA 2-Bromo-2-nitro-1,3-propanediol Acetic acid Acetic anhydride Alcohols, C14-C15, ethoxylated Alkane Alkenes Amine salts Ammonium persulfate Ammonium salt Bentonite, benzyl(hydrogenated tallow alkyl) dimethylammonium stearate complex Borate salts Calcium Chloride Citric acid Complex alkylamine Crystalline silica, quartz Crystalline Silica, Quartz Crystalline silica: Quartz (SiO2) Cured acrylic resin Diatomaceous earth, calcined Ethylene glycol Ethylenediaminetetraacetic acid, tetrasodium salt Fatty acids, tall oil Glassy calcium magnesium phosphate Guar gum Hexamethylenetetramine Hydrochloric acid Inorganic mineral Methanol Mineral oil Mullite Olefins Phenol / formaldehyde resin Poly(oxy-1,2-ethanediyl), alpha -isodecyl- omega -hydroxy- Polyepichlorohydrin, trimethyl amine quaternized Polymer Polypropylene glycol Potassium hydroxide Potassium metaborate Propargyl alcohol Quaternary amine Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide Silica gel Siloxanes and Silicones, di-Me, reaction products with silica Sodium bicarbonate Sodium chloride Sodium hydroxide Sodium persulfate Sodium sulfate Surfactant mixture Tributyl tetradecyl phosphonium chloride Trimethylamine, N-oxide Water	NA 52-51-7 64-19-7 108-24-7 68951-67-7 Confidential Confidential Confidential 7727-54-0 Confidential 121888-68-4 Confidential Proprietary 77-92-9 Proprietary 14808-60-7 14808-60-7 14808-60-7 Confidential 91053-39-3 107-21-1 64-02-8 Confidential 65997-17-3 9000-30-0 100-97-0 7647-01-0 Confidential 67-56-1 8042-47-5 1302-93-8 Confidential 9003-35-4 61827-42-7 51838-31-4 Proprietary 25322-69-4 1310-58-3 13709-94-9 107-19-7 Confidential 68527-49-1 112926-00-8 67762-90-7 144-55-8 7647-14-5 1310-73-2 7775-27-1 7757-82-6 Confidential 81741-28-8 1184-78-7 7732-18-5	0% 100% 60% 100% 30% 1% 100% 0.1% 100% 60% 5% 60% 5% 100% 1% 60% 30% 100% 2% 60% 5% 60% 30% 100% 5% 60% 10% 100% 5% 30% 1% 30% 0.01% 5% 30% 100% 0.1% 100% 0.1% 1% 10% 5% 100%	0% 4E-05% 0.02116% 0.03526% 0.00087% 0.00047% 0.01527% 0.0001% 0.00491% 0.02921% 0.00672% 0.0149% 0.00131% 0.02314% 0.00235% 5.05705% 0.0013% 9E-05% 0.00147% 0.00523% 0.00789% 0% 0.00087% 0.01678% 0.13448% 0.11694% 0.55433% 0.00124% 0.00175% 0.00262% 7.32997% 0.00035% 0.47559% 0.01408% 0.01376% 0.00025% 0.00458% 0.00053% 0.00633% 0.00029% 0.00297% 0.00087% 0.00134% 0.00458% 0% 0.00256% 0.00381% 0.00094% 0% 0.00269% 0.00439% 0.00115% 1.11979%

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: 9/23/2015

E-mail Address: sdavis@conchoresources.com

Title: Regulatory Analyst

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