

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:
30-025-42519

2. Well Name:
BANTER STATE COM #004H

3. Well Number:
004H

HYDRAULIC FRACTURING FLUID
DISCLOSURE

☒ Original
☐ Amendment

4. Surface Hole Location:
Unit:D Lot:D Section:13 Township:23S Range:34E
Feet from:190 N/S Line:N
Feet from:660 E/W Line:W

5. Bottom Hole Location:
Unit:M Lot:M Section:13 Township:23S Range:34E
Feet from:343 N/S Line:S
Feet from:670 E/W Line:W

6. latitude:
32.3113641579966 longitude:
-103.430114430204

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:
1/20/2016 Frac Performed by:
Halliburton

12. Production Type:
O

13. Pool Code(s):
2205

14. Gross Fractured Interval:
11,545 ft to 15,805 ft

15. True Vertical Depth (TVD):
11,404 ft

16. Total Volume of Fluid Pumped:
7,162,000 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%	88.87599%
HYDROCHLORIC ACID	Halliburton	Base Fluid	NA	NA	0%	0%
BE-9W, CL-28M CROSSLINKER, CL-31 CROSSLINKER, Cla-	Halliburton	Additive, Biocide, Breaker, Concentrate, Corrosion Inhibitor, Crosslinker, Friction Reducer, Gelling	NA	NA	0%	0%
SAND-PREMIUM WHITE-30/50, BULK, SAND-PREMIUM WHITE	Halliburton	Scale Preventer, Surfactant	NA	NA	0%	0%
Parasorb, Scaletrol	Baker Hughes	Paraffin Inhibitor, Scale Inhibitor	NA	NA	0%	0%
			Alcohols ethoxylated	Confidential	5%	0.00203%
			Alcohols, C14-C15, ethoxylated	68951-67-7	30%	0.00044%
			Alkane	Confidential	1%	0.00045%
			Amide	Confidential	5%	0.00203%
			Amine salts	Confidential	0.1%	0.0001%
			Ammonium chloride	12125-02-9	5%	0.00203%
			Ammonium persulfate	7727-54-0	100%	0.00412%
			Ammonium salt	Confidential	60%	0.02922%
			Bentonite, benzyl(hydrogenated tallow alkyl) dimethylammonium stearate complex	121888-68-4	5%	0.00767%
			Borate salts	Confidential	60%	0.01412%
			Calcined Mineral Oil	8042-47-5	30%	0.00243%
			Complex alkylamine	Confidential	5%	0.00227%
			Crystalline silica, quartz	14808-60-7	100%	9.73302%
			Crystalline Silica, Quartz	14808-60-7	0.1%	0.00015%
			Crystalline Silica, Quartz (SiO2)	14808-60-7	1%	8E-05%
			Cured acrylic resin	Confidential	30%	0.00124%
			Ethylene glycol	107-21-1	7%	0.00373%
			Ethylenediaminetetraacetic acid, tetrasodium salt	64-02-8	0.01%	0%
			Fatty acids, tall oil	Confidential	30%	0.00044%
			Glassy calcium magnesium phosphate	65997-17-3	100%	0.01619%
			Glycerine	56-81-5	10%	0.00454%
			Guar gum	9000-30-0	100%	0.15331%
			Hydrochloric acid	7647-01-0	60%	0.5541%
			Hydrogen peroxide	7722-84-1	0.01%	0%
			Hydrotreated light petroleum distillate	64742-47-8	30%	0.01216%
			Inorganic mineral	Confidential	5%	0.00118%
			Methanol	67-56-1	60%	0.00088%
			Nitrotriacetic acid, trisodium salt monohydrate	5064-31-3	0.01%	0%
			Olefins	Confidential	5%	0.00018%
			Poly(oxy-1,2-ethanediyl), ,alpha.-isodecyl-,omega.-hydroxy-, polyacrylamide copolymer	61827-42-7	30%	0.01361%
			Polyacrylamide copolymer	Confidential	30%	0.01216%
			Polymer	Proprietary	1%	0.00024%
			Potassium hydroxide	1310-58-3	5%	0.00061%
			Potassium metaborate	13709-94-9	60%	0.00729%
			Propargyl alcohol	107-19-7	10%	0.00015%
			Propylene glycol	57-55-6	60%	0.02644%
			Quaternary amine	Confidential	5%	0.00297%
			Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide	68527-49-1	30%	0.00044%
			Silica gel	112926-00-8	1%	0.00153%
			Sodium bicarbonate	144-55-8	0.01%	0%
			Sodium chloride	7647-14-5	5%	0.00456%
			Sodium glycolate	2836-32-0	0.01%	0%
			Sodium hydroxide	1310-73-2	30%	0.00282%
			Sodium perborate tetrahydrate	10486-00-7	100%	0.00437%
			Sodium persulfate	7775-27-1	100%	0.00524%
			Sodium sulfate	7757-82-6	0.1%	1E-05%
			Sorbitan monooleate	9005-65-6	1%	0.00041%
			polyoxyethylene derivative			
			Sorbitan, mono-9-octadecenoate, (2)	1338-43-8	1%	0.00041%
			Surfactant mixture	Confidential	1%	0.00307%
			Tributyl tetradecyl phosphonium chloride	81741-28-8	10%	0.00441%
			Water	7732-18-5	100%	1.10223%

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:
2/9/2016

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.