

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

HYDRAULIC FRACTURING FLUID
DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit: B Lot: B Section: 27 Township: 21S Range: 33E
Feet from: 190 N/S Line: N
Feet from: 1980 E/W Line: E

5. Bottom Hole Location:
Unit: O Lot: O Section: 27 Township: 21S Range: 33E
Feet from: 459 N/S Line: S
Feet from: 1954 E/W Line: E

6. Latitude: 32.4565215899458 Longitude: -103.55820618325

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: 4/10/2015 Frac Performed by: Halliburton

12. Production Type: O

13. Pool Code(s): 97929

14. Gross Fractured Interval: 11,141 ft to 15,210 ft

15. True Vertical Depth (TVD): 11,025 ft

16. Total Volume of Fluid Pumped: 11,342,524 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%	97.84674%
FE-1	Halliburton		Acetic acid	64-19-7	100%	1.8379%
BE-9	Halliburton	Biocide	Tributyl tetradecyl phosphonium chloride	81741-28-8	10%	0.00484%
Cla-Web(TM)	Halliburton	Additive	Ammonium salt	Confidential	60%	0.03281%
LOSURF-360	Halliburton	Surfactant	Complex Alkylamine	100545-50-4	5%	0.00251%
			Poly(oxy-1,2-ethanediyl), .alpha.-isodecyl-.omega.-hydroxy-	61827-42-7	30%	0.01503%
HpH BREAKER	Halliburton	Breaker	Sodium chloride	7647-14-5	30%	7E-05%
HAI-OS ACID INHIBITOR	Halliburton	Corrosion Inhibitor	Methanol	67-56-1	60%	0.00188%
			Propargyl alcohol	107-19-7	10%	0.00031%
CLA-STA XP ADDITIVE	Halliburton	Clay Stabilizer	Polyepichlorohydrin, trimethyl amine quaternized	51838-31-4	60%	0.00859%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.12412%
BE-6 MICROBIOCIDE	Halliburton	Biocide	2-Bromo-2-nitro-1,3-propanediol	52-51-7	100%	2E-05%
OPTIFLO-HTE	Halliburton	Breaker	Crystalline silica, quartz	14808-60-7	30%	0.00082%
			Walnut hulls	Mixture	100%	0.00275%
Scalechek(R) SCP-2 Scale Inhibitor	Halliburton	Scale Preventer	Glassy calcium magnesium phosphate	65997-17-3	100%	0.01758%
Ingredients Listed Below This Line Are Part of the			1,2-Benzisothiazolin-3-one	2634-33-5	0.1%	0%
			Alcohols, C14-C15, ethoxylated	68951-67-7	30%	0.00094%
			Alkane	Confidential	1%	0.0005%
			Amine salts	Confidential	0.1%	5E-05%
			Amine salts	Confidential	0.1%	5E-05%
			Bentonite, benzyl(hydrogenated tallow alkyl) dimethylammonium stearate complex	121888-68-4	5%	0.00621%
			C.I. Pigment Red 5	6410-41-9	1%	3E-05%
			Calcium chloride	10043-52-4	0.1%	0%
			Crystalline Silica, Quartz	14808-60-7	0.1%	0.00012%
			Cured acrylic resin	Confidential	1%	3E-05%
			Cured acrylic resin	Confidential	30%	0.00082%
			Enzyme	Confidential	1%	0%
			Enzyme	Confidential	5%	0.00014%
			Ethylenediaminetetraacetic acid, tetrasodium salt	64-02-8	0.01%	1E-05%
			Fatty acids, tall oil	Confidential	30%	0.00094%
			Olefins	Confidential	1%	3E-05%
			Olefins	Confidential	5%	0.00016%
			Olefins	Confidential	5%	0.00016%
			Olefins	Confidential	1%	3E-05%
			Quaternary amine	Confidential	5%	0.00273%
			Quaternary amine	Confidential	1%	0.00055%
			Quaternary amine	Confidential	0.1%	5E-05%
			Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide	68527-49-1	30%	0.00094%
			Silica gel	112926-00-8	1%	0.00124%
			Sodium bicarbonate	144-55-8	0.01%	1E-05%
			Sodium chloride	7647-14-5	5%	0.00273%
			Surfactant mixture	Confidential	1%	0.00124%
			Surfactant mixture	Confidential	1%	0.00124%
			Trimethylamine, N-oxide	1184-78-7	5%	0.00072%
			Water	7732-18-5	100%	0.14543%

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: 5/28/2015

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.