

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:
30-015-39388

2. Well Name:
CALI ROLL 24 FEDERAL COM #002H

3. Well Number:
002H

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 E/W Line:E
Feet from:430

5. Bottom Hole Location:
Unit:P Lot:P Section:25 Township:26S Range:25E
Feet from:345 N/S Line:S E/W Line:E
Feet from:358

6. latitude: 32.0343285 longitude: -104.3420868

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: 3/19/2016 Frac Performed by: Halliburton

12. Production Type:
O

13. Pool Code(s):
96403

14. Gross Fractured Interval:
8,176 ft to 17,615 ft

15. True Vertical Depth (TVD):
8,013 ft

16. Total Volume of Fluid Pumped:
12,689,458 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%	87.46759%
HYDROCHLORIC ACID	Halliburton	Base Fluid	NA	NA	0%	0%
BC-140 X2, Cla-Web(TM), HAI-OS ACID INHIBITOR, HpH	Halliburton	Additive, Breaker, Concentrate, Corrosion Inhibitor, Gelling Agent, Initiator, pH Control Additive,	NA	NA	0%	0%
Scaletrol	Baker Hughes	Scale Inhibitor	NA	NA	0%	0%
Parasorb	Baker Hughtes	Scale Inhibitor	NA	NA	0%	0%
DCA-23003	Halliburton	Friction Reducer	NA	NA	0%	0%
			1,2-Benzisothiazolin-3-one	2634-33-5	0.1%	0%
			2,7-Naphthalenedisulfonic acid, 3-hydroxy-4-[(4-sulfor-1-naphthalenyl) azo] -, trisodium salt	915-67-3	0.1%	2E-05%
			Alcohols, C14-C15, ethoxylated	68951-67-7	30%	0.00017%
			Alkane	Confidential	1%	0.0004%
			Amine salts	Confidential	0.1%	9E-05%
			Ammonium salt	Confidential	60%	0.02744%
			Bentonite, benzyl(hydrogenated tallow alkyl) dimethylammonium stearate complex	121888-68-4	5%	0.00568%
			C.I. Pigment Red 5	6410-41-9	1%	1E-05%
			Calcium chloride	10043-52-4	0.1%	0%
			Calcium Chloride	10043-52-4	5%	0.00121%
			Complex alkylamine	Confidential	5%	0.00199%
			Crystalline silica, quartz	14808-60-7	100%	11.89124%
			Crystalline Silica, Quartz	14808-60-7	0.1%	0.00011%
			Crystalline Silica: Quartz	14808-60-7	1%	0.0001%
			Cured acrylic resin	Confidential	30%	0.00022%
			Diatomaceous earth, calcined	91053-39-3	60%	0.00614%
			Enzyme	Confidential	5%	4E-05%
			Ethoxylated branched C13 alcohol	78330-21-9	5%	0.00054%
			Ethylene glycol	107-21-1	30%	0.01395%
			Ethylenediaminetetraacetic acid, tetrasodium salt	64-02-8	0.01%	0%
			Fatty acids, tall oil	Confidential	30%	0.00017%
			Glassy calcium magnesium phosphate	65997-17-3	100%	0.01322%
			Glycerine	56-81-5	10%	0.00398%
			Guar gum	9000-30-0	100%	0.11354%
			Hexamethylenetetramine	100-97-0	2%	0.04764%
			Hydrochloric acid	7647-01-0	60%	0.21275%
			Hydrogen peroxide	7722-84-1	0.01%	0%
			Hydrotreated light petroleum distillate	64742-47-8	30%	0.00323%
			Methanol	67-56-1	60%	0.00035%
			Mineral Oil	8042-47-5	30%	0.00307%
			Monoethanolamine borate	26039-87-9	100%	0.02228%
			Nitrotriactic acid, trisodium salt monohydrate	5064-31-3	0.01%	0%
			Olefins	Confidential	5%	7E-05%
			Phenol / formaldehyde resin	9003-35-4	5%	0.1191%
			Poly(oxy-1,2-ethanediyl), ,alpha.-isodecyl-,omega.-hydroxy-, Propargyl alcohol	61827-42-7	30%	0.01193%
			Quaternary amine	107-19-7	10%	6E-05%
			Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide	Confidential	5%	0.00279%
				68527-49-1	30%	0.00017%
			Silica gel	112926-00-8	1%	0.00114%
			Sodium bicarbonate	144-55-8	0.01%	0%
			Sodium chloride	7647-14-5	30%	0.00251%
			Sodium glycolate	2836-32-0	0.01%	0%
			Sodium hydroxide	1310-73-2	30%	0.00119%
			Sodium perborate tetrahydrate	10486-00-7	100%	0.00123%
			Surfactant mixture	Confidential	1%	0.00227%
			Walnut hulls	NA	100%	0.0007%
			Water	7732-18-5	100%	0.43699%

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: 5/16/2016

E-mail Address: sdavis@conchoresources.com

Title: Regulatory Analyst

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.