

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: C Lot: 3 Section: 4 Township: 25S Range: 33E
Feet from: 190 N/S Line: N
Feet from: 2130 E/W Line: W

5. Bottom Hole Location:
Unit: N Lot: N Section: 4 Township: 25S Range: 33E
Feet from: 330 N/S Line: S
Feet from: 2278 E/W Line: W

6. latitude: 32.166217 longitude: -103.578417

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: 3/31/2016 Frac Performed by: Halliburton

12. Production Type:
O

13. Pool Code(s):
97900

14. Gross Fractured Interval:
9,559 ft to 13,815 ft

15. True Vertical Depth (TVD):
9,416 ft

16. Total Volume of Fluid Pumped:
7,832,669 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%	87.42334%
HYDROCHLORIC ACID	Halliburton	Base Fluid	NA	NA	0%	0%
Cla-Web(TM), DCA-23003, FE-1A ACIDIZING COMPOSITIO	Halliburton	Additive, Breaker, Concentrate, Corrosion Inhibitor, Friction Reducer, Gelling Agent, Proppant, Surf	NA	NA	0%	0%
WG-36 GELLING AGENT	Halliburton		NA	NA	0%	0%
Parasorb 5000, Scalesorb 12, Scaletrol	Baker Hughes	Paraffin Inhibitor, Scale Inhibitor	NA	NA	0%	0%
12.5% NaHypochlorite, 15% HCl	Brenntag Southwest Inc	Acid, Biocide	NA	NA	0%	0%
31% NaChlorite Solut	Occidental Chemical Corporation	Biocide	NA	NA	0%	0%
			1,2-Benzisothiazolin-3-one	2634-33-5	0.1%	0%
			Acetic acid	64-19-7	60%	0.00297%
			Acetic anhydride	108-24-7	100%	0.00495%
			Acrylamide	79-06-1	0.01%	0%
			Acrylamide, sodium acrylate polymer	25987-30-8	30%	0.00347%
			Alcohols, C14-C15, ethoxylated	68951-67-7	30%	0.00025%
			Alkane	Confidential	1%	0.00045%
			Amine salts	Confidential	0.1%	0.0001%
			Ammonium salt	Confidential	60%	0.02891%
			Bentonite, benzyl(hydrogenated tallow alkyl) dimethylammonium stearate complex	121888-68-4	5%	0.00314%
			C.I. Pigment Red 5	6410-41-9	1%	1E-05%
			Calcium chloride	10043-52-4	5%	0.00131%
			Citric acid	77-92-9	60%	0.00308%
			Complex alkylamine	Confidential	5%	0.00225%
			Crystalline silica, quartz	14808-60-7	100%	11.27603%
			Crystalline Silica, Quartz	14808-60-7	0.1%	6E-05%
			Crystalline silica: Quartz	14808-60-7	1%	0.00014%
			Cured acrylic resin	Confidential	30%	0.00029%
			Diatomaceous earth, calcined	91053-39-3	60%	0.00736%
			Enzyme	Confidential	5%	5E-05%
			Ethoxylated branched C13 alcohol	78330-21-9	5%	0.00058%
			Ethylene glycol	107-21-1	30%	0.00785%
			Ethylenediaminetetraacetic acid, tetrasodium salt	64-02-8	0.01%	1E-05%
			Fatty acids, tall oil	Confidential	30%	0.00025%
			Glycerine	56-81-5	10%	0.00451%
			Gum arabic	9000-30-0	100%	0.00281%
			Hydrochloric acid	7647-01-0	60%	0.03632%
			Hydrogen peroxide	7722-84-1	0.01%	1E-05%
			Hydrotreated light petroleum distillate	64742-47-8	30%	0.00347%
			Methanol	67-56-1	60%	0.0005%
			Mineral oil	8042-47-5	30%	0.00134%
			Nitrotriacetic acid, trisodium salt monohydrate	5064-31-3	0.01%	1E-05%
			Olefins	Confidential	5%	0.0001%
			Phosphonic acid, sodium salt	15475-67-9	5%	0.00047%
			Phosphonomethylated diamine, sodium salt	Confidential	20%	0.00187%
			Poly(oxy-1,2-ethanediyl), alpha-isodecyl-omega-hydroxy-	61827-42-7	30%	0.01352%
			Propargyl alcohol	107-19-7	10%	8E-05%
			Quaternary amine	Confidential	5%	0.00294%
			Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide	68527-49-1	30%	0.00025%
			Silica gel	112926-00-8	1%	0.00063%
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	5%	0.00058%
			Sodium bicarbonate	144-55-8	0.01%	1E-05%
			Sodium chloride	007647-14-5	30%	0.00336%
			Sodium chlorite	7758-19-2	35%	0.00196%
			Sodium diacetate	126-96-5	5%	0.00058%
			Sodium glycolate	2836-32-0	0.01%	1E-05%
			Sodium hydroxide	001310-73-2	2%	0.00013%
			Sodium hypochlorite	007681-52-9	13%	0.00083%
			Sodium perborate tetrahydrate	10486-00-7	100%	0.00166%
			Sorbitan monooleate	9005-65-6	5%	0.00058%
			polyoxyethylene derivative	Confidential	1%	0.00126%
			Surfactant mixture	Confidential	1%	0.00126%
			Walnut hulls	NA	100%	0.00094%
			Water	7732-18-5	100%	1.1494%

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: 6/10/2016

E-mail Address: sdavis@conchoresources.com

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