

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:
30-025-42170

2. Well Name:
RESOLVER FEDERAL COM #002H

3. Well Number:
002H

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:C Lot:C Section:12 Township:23S Range:32E
Feet from:190 N/S Line:N
Feet from:2260 E/W Line:W

5. Bottom Hole Location:
Unit:N Lot:N Section:12 Township:23S Range:32E
Feet from:436 N/S Line:S
Feet from:2284 E/W Line:W

6. latitude: 32.325958504698 longitude: -103.629583728773

7. County:
Lea

8. Operator Name and Address:
COG OPERATING LLC
One Concho Center
800 W. Illinois Ave
Midland 79701

9. OGRID: 229137

10. Phone Number: 432-685-4332

11. Last Fracture Date: 3/5/2016 Frac Performed by: Halliburton

12. Production Type:
O

13. Pool Code(s):
17644

14. Gross Fractured Interval:
9,870 ft to 13,990 ft

15. True Vertical Depth (TVD):
12,500 ft

16. Total Volume of Fluid Pumped:
8,071,780 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		88.51289%
HCl > 10%	Halliburton	Solvent	NA	NA		0%
Cla-Web(TM), FR-66, HAJ-OS ACID INHIBITOR, LOSURF-	Halliburton	Additive, Breaker, Concentrate, Corrosion Inhibitor, Enzyme, Friction Reducer, Gelling Agent, Proppa	NA	NA		0%
ParaSorb, Scalesorb, Scaletrol	Baker Hughes	Scale Inhibitor	NA	NA		0%
			1,2-Benzisothiazolin-3-one	2634-33-5		0%
			Alcohols ethoxylated	Confidential		0.00221%
			Alcohols, C14-C15, ethoxylated	68951-67-7		0.00024%
			Alkane	Confidential		0.00046%
			Amide	Confidential		0.00221%
			Amine salts	Confidential		0.0001%
			Ammonium chloride	12125-02-9		0.00221%
			Ammonium salt	Confidential		60%
			Bentonite, benzyl(hydrogenated tallow alkyl) dimethylammonium stearate complex	121888-68-4		0.00304%
			C.I. Pigment Red 5	6410-41-9		1E-06%
			Calcium Chloride	8042-47-5		0.00129%
			Complex alkylamine	Confidential		0.00231%
			Crystalline Silica: Quartz	14808-60-7		4E-05%
			Crystalline silica, quartz	14808-60-7		10.2711%
			Crystalline Silica: Quartz	14808-60-7		6E-05%
			Crystalline Silica: Quartz	14808-60-7		9E-05%
			Cured acrylic resin	Confidential		0.0004%
			Diatomaceous earth, calcined	91053-39-3		0.00824%
			Enzyme	Confidential		6E-05%
			Enzyme	Confidential		1E-05%
			Ethylene Glycol	107-21-1		0.00772%
			Ethylenediaminetetraacetic acid, tetrasodium salt	64-02-8		0%
			Fatty acids, tall oil	Confidential		0.00024%
			FD&C Blue 1	3844-45-9		1E-05%
			Glycerine	56-81-5		0.00479%
			Guar gum	9000-30-0		0.06075%
			Hydrochloric acid	7647-01-0		0.29144%
			Hydrogen peroxide	7722-84-1		0%
			Hydrotreated light petroleum distillate	64742-47-8		0.01325%
			Methanol	67-56-1		0.00047%
			Mineral Oil	8042-47-5		0.00126%
			Nitrotriactic acid, trisodium salt monohydrate	5064-31-3		0%
			Olefins	Confidential		9E-05%
			Organophosphorous Salt	Confidential		0.00351%
			Poly(oxy-1,2-ethanediyl), ,alpha.-isodecyl- omega.-hydroxy-	61827-42-7		0.01387%
			Polyacrylamide copolymer	Confidential		0.01325%
			Propargyl alcohol	107-19-7		8E-05%
			Quaternary amine	Confidential		0.00293%
			Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide	68527-49-1		0.00024%
			Silica gel	112926-00-8		0.00061%
			Sodium bicarbonate	144-55-8		0%
			Sodium chloride	7647-14-5		0.00461%
			Sodium glycolate	2836-32-0		0%
			Sodium hydroxide	1310-73-2		0%
			Sodium perborate tetrahydrate	10486-00-7		0.00494%
			Sorbitan monooleate	9005-65-6		0.00044%
			polyoxyethylene derivative	1338-43-8		0.00044%
			Sorbitan, mono-9-octadecenoate, (Z)	Confidential		0.00122%
			Surfactant mixture	NA		0.00127%
			Walnut hulls	7732-18-5		1.07333%
			Water	7732-18-5		1.07333%

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

Date: 6/10/2016

E-mail Address: sdavis@conchoresources.com

Printed Name: Stormi Davis

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.