

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

1. WELL API NO:
30-015-42937

2. Well Name:
MAN STATE #002H

3. Well Number:
002H

HYDRAULIC FRACTURING FLUID
DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:L Lot:L Section:32 Township:18S Range:28E
Feet from:2310 N/S Line:S
Feet from:190 E/W Line:W

5. Bottom Hole Location:
Unit:L Lot:L Section:32 Township:18S Range:28E
Feet from:2258 N/S Line:S
Feet from:397 E/W Line:E

6. latitude: 32.702988874 longitude: -104.20547669

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: 4/27/2015 Frac Performed by: Halliburton

12. Production Type:
O

13. Pool Code(s):
97257

14. Gross Fractured Interval:
7,014 ft to 11,305 ft

15. True Vertical Depth (TVD):
6,969 ft

16. Total Volume of Fluid Pumped:
5,590,595 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)
FE-1	Halliburton	Base Fluid	NA	NA	0%	0%
Fresh Water	Operator	Base Fluid	Fresh Water	7732-18-5	100%	85.07684%
BC-140 X2, BE-6 MICROBIOCIDE, BE-9, CLA-STA XP ADD	Halliburton	Additive, Biocide, Breaker, Clay Stabilizer, Clay Stabilizer, Corrosion Inhibitor, Gelling Agent, Ini	NA	NA	0%	0%
NA	Halliburton	Scale Preventer, Surfactant	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%
			2-Bromo-2-nitro-1,3-propanediol	52-51-7	100%	4E-05%
			Acetic acid	64-19-7	100%	2.67402%
			Alcohols, C14-C15, ethoxylated	68951-67-7	30%	0.00139%
			Alkane	Confidential	1%	0.00043%
			Amine salts	Confidential	0.1%	9E-05%
			Ammonium salt	Confidential	60%	0.02809%
			Bentonite, benzy(hydrogenated tallow alkyl) dimethylammonium stearate complex	121888-68-4	5%	0.00721%
			C.I. Pigment Red 5	6410-41-9	1%	5E-05%
			Calcium chloride	10043-52-4	0.1%	0%
			Complex alkylamine	Proprietary	5%	0.00215%
			Crystalline silica, quartz	14808-60-7	30%	0.00157%
			Crystalline Silica, Quartz	14808-60-7	0.1%	0.00014%
			Cured acrylic resin	Confidential	30%	0.00163%
			Enzyme	Confidential	5%	0.00027%
			Ethylene glycol	107-21-1	30%	0.00691%
			Ethylenediaminetetraacetic acid, tetrasodium salt	64-02-8	0.01%	0%
			Fatty acids, tall oil	Confidential	30%	0.00139%
			Glassy calcium magnesium phosphate	65997-17-3	100%	0.02628%
			Guar gum	9000-30-0	100%	0.1442%
			Methanol	67-56-1	60%	0.00277%
			Monethanolamine borate	26038-87-9	100%	0.02303%
			NFIDB:NA	NFIDB:NA	100%	11.89642%
			NFIDB:Scaletrol	NFIDB:Scaletrol	100%	0%
			Olefins	Confidential	5%	0.00055%
			Poly(oxy-1,2-ethanediyl), ,alpha.-isodecyl-, omega.-hydroxy-	61827-42-7	30%	0.01288%
			Polyepichlorohydrin, trimethyl amine quaternized	51838-31-4	60%	0.00862%
			Propargyl alcohol	107-19-7	10%	0.00046%
			Quaternary amine	Confidential	5%	0.00286%
			Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide	68527-49-1	30%	0.00139%
			Silica gel	112926-00-8	1%	0.00144%
			Sodium bicarbonate	144-55-8	0.01%	0%
			Sodium chloride	7647-14-5	30%	0.00249%
			Sodium hydroxide	1310-73-2	30%	0.00102%
			Surfactant mixture	Confidential	1%	0.00288%
			Tributyl tetradecyl phosphonium chloride	81741-28-8	10%	0.00414%
			Trimethylamine, N-oxide	1184-78-7	5%	0.00072%
			Walnut hulls	NA	100%	0.00525%
			Water	7732-18-5	100%	0.13963%

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: 7/27/2015

E-mail Address: sdavis@conchoresources.com

Title: Regulatory Analyst

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