

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:21S Range:33E
Feet from:480 N/S Line:N
Feet from:2590 E/W Line:W

5. Bottom Hole Location:
Unit:N Lot:N Section:4 Township:21S Range:33E
Feet from:345 N/S Line:S
Feet from:1972 E/W Line:W

6. latitude: 32.5132353307086 longitude: -103.585879769469

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: 9/21/2014 Frac Performed by: Halliburton

12. Production Type:
O

13. Pool Code(s):
97895

14. Gross Fractured Interval:
11,642 ft to 18,250 ft

15. True Vertical Depth (TVD):
11,550 ft

16. Total Volume of Fluid Pumped:
11,189,454 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				100%	87.95881%
FE ACID - <10% HCL	Halliburton		Hydrochloric acid	7647-01-0	10%	0.16585%
Premium 100 Mesh	Halliburton				100%	0.67774%
SAND-CRC-40/70	Halliburton				100%	2.08573%
SAND-CRC-30/50	Halliburton				100%	7.23211%
LOSURF-360	Halliburton				100%	0%
BE-9	Halliburton	Biocide	Tributyl tetradecyl phosphonium chloride	81741-28-8	10%	0.0043%
CLA-STA XP ADDITIVE	Halliburton	Clay Stabilizer	Polypeichlorohydrin, trimethyl amine quaternized	51838-31-4	60%	0.00911%
Cla-Web™	Halliburton	Additive	Ammonium salt	Confidential Business Information	60%	0.02913%
MO-67	Halliburton	pH Control Additive	Sodium hydroxide	1310-73-2	30%	0.00287%
D-AIR 3000L	Halliburton	Defoamer	Alkenes	Confidential Business Information	100%	0.01478%
			Silica, amorphous precipitated	67762-90-7	30%	0.00443%
CL-31 CROSSLINKER	Halliburton	Crosslinker	Potassium hydroxide	1310-58-3	5%	0.00035%
			Potassium metaborate	13709-94-9	60%	0.00426%
CL-22 UC	Halliburton	Crosslinker	Potassium formate	590-29-4	60%	0.01434%
SCALECHEK LP-55	Halliburton	Scale Inhibitor	Polyacrylate	Confidential Business Information	60%	0.01578%
BE-6 MICROBICIDE	Halliburton	Biocide	2-Bromo-2-nitro-1,3-propanediol	52-51-7	100%	2E-05%
Scalechek® SCP-2 Scale Inhibitor	Halliburton	Scale Preventer	Glassy calcium magnesium phosphate	65997-17-3	100%	0.01604%
OPTIFLO-III DELAYED RELEASE BREAKER	Halliburton	Breaker	Ammonium persulfate	7727-54-0	100%	0.0016%
			Crystalline silica, quartz	14808-60-7	30%	0.00048%
SP BREAKER	Halliburton	Breaker	Sodium persulfate	7775-27-1	100%	0.00035%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.18067%
Ingredients Listed Below This Line Are Part of the			2,7-Naphthalenedisulfonic acid, 3-hydroxy-4-[(4-sulfor-1-naphthalenyl) azo] -, trisodium salt	915-67-3	0%	0%
			2,7-Naphthalenedisulfonic acid, 5-(acetylamino) -4-hydroxy-3-[(2-methoxyphenyl) azo] -, disodium salt	6625-46-3	0%	0%
			Acetic acid	64-19-7	0%	0%
			Acetic anhydride	108-24-7	0%	0%
			Acrylate polymer	Confidential Business Information	0%	0%
			Amine salts	Confidential Business Information	0%	0%
			Amine salts	Confidential Business Information	0%	0%
			Bentonite, benzyl (hydrogenated tallow alkyl) dimethylammonium stearate complex	121888-68-4	0%	0%
			Borate salts	Confidential Business Information	0%	0%
			Citric acid	77-92-9	0%	0%
			Crystalline silica, quartz	14808-60-7	0%	0%
			Cured acrylic resin	Confidential Business Information	0%	0%
			Food red 10	3734-67-6	0%	0%
			Polypropylene glycol	25322-69-4	0%	0%
			Quaternary amine	Confidential Business Information	0%	0%
			Quaternary amine	Confidential Business Information	0%	0%
			Quaternary amine	Confidential Business Information	0%	0%
			Silica gel	112926-00-8	0%	0%
			Sodium carboxymethyl cellulose	9004-32-4	0%	0%
			Sodium chloride	7647-14-5	0%	0%
			Sodium glycollate	2836-32-0	0%	0%
			Sodium sulfate	7757-82-6	0%	0%
			Surfactant mixture	Confidential Business Information	0%	0%
			Surfactant mixture	Confidential Business Information	0%	0%
			Trimethylamine, N-oxide	1184-78-7	0%	0%
			Water	7732-18-5	0%	0%

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: 11/10/2014

E-mail Address: sdavis@conchoresources.com

Title: Regulatory Analyst

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