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. 30-015-42323
2. Well Name: CRAPSHOOT 13 FEDERAL #001H
3. Well Number: 001H

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location: Unit:A Lot:A Section:24 Township:20S Range:29E; Feet from:230 N/S Line:N; Feet from:1040 E/W Line:E
5. Bottom Hole Location: Unit:A Lot:A Section:13 Township:20S Range:29E; Feet from:392 N/S Line:N; Feet from:388 E/W Line:E
6. latitude: 32.5654966193835 longitude: -104.023396451395
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: 8/6/2014 Frac Performed by: Halliburton
12. Production Type: O
13. Pool Code(s): 49622
14. Gross Fractured Interval: 8,799 ft to 13,250 ft
15. True Vertical Depth (TVD): 8,431 ft
16. Total Volume of Fluid Pumped: 5,165,570 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%	85.7213%
FE ACID - <10% HCL	Halliburton		Hydrochloric acid	7647-01-0	10%	0.14928%
20/40 Premium White	Halliburton				100%	10.05082%
20/40 CRC	Halliburton				100%	2.31397%
LoSurf-360W	Halliburton	Surfactant	Complex alkylamine	Confidential Business Information	5%	0.00224%
			Glycerine	56-81-5	10%	0.00447%
			Poly(oxy-1,2-ethanediyl), .alpha.-isodecyl-.omega.-hydroxy-	61827-42-7	30%	0.01342%
BE-9	Halliburton	Biocide	Tributyl tetradecyl phosphonium chloride	81741-28-8	10%	0.00415%
SUPERSET W	Halliburton	Activator	Methanol	67-56-1	60%	0.03342%
			Ethoxylated nonylphenol	Confidential Business Information	60%	0.03342%
CLA-STA XP ADDITIVE	Halliburton	Clay Stabilizer	Polyepichlorohydrin, trimethyl amine quaternized	51838-31-4	60%	0.0076%
Cla-Web™	Halliburton	Additive	Ammonium salt	Confidential Business Information	60%	0.02795%
HpH BREAKER	Halliburton	Breaker	Sodium chloride	7647-14-5	30%	8E-05%
MO-67	Halliburton	pH Control Additive	Sodium hydroxide	1310-73-2	30%	0.00188%
BC-140 X2	Halliburton	Initiator	Ethylene glycol	107-21-1	30%	0.00842%
			Monoethanolamine borate	26038-87-9	100%	0.02807%
SCALECHEK LP-55 SCALE INHIBITOR	Halliburton	Scale Inhibitor	Polyacrylate	Confidential Business Information	60%	0.01544%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.14038%
Scalechek® SCP-2 Scale Inhibitor	Halliburton	Scale Preventer	Glassy calcium magnesium phosphate	65997-17-3	100%	0.01391%
OPTIFLO-III DELAYED RELEASE BREAKER	Halliburton	Breaker	Ammonium persulfate	7727-54-0	100%	0.00536%
			Crystalline silica, quartz	14808-60-7	30%	0.00161%
Ingredients Listed Below This Line Are Part of the			1,2-Benzisothiazolin-3-one	2634-33-5	0%	0%
			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%
			Alkane	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%
			Calcium chloride	10043-52-4	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%
			Enzyme	Confidential Business Information	0%	0%
			Ethylenediaminetetraacetic acid, tetrasodium salt	64-02-8	0%	0%
			Food red 10	3734-67-6	0%	0%
			Hydrogen peroxide	7722-84-1	0%	0%
			Nitrotriacetic acid, trisodium salt monohydrate	5064-31-3	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 bicarbonate	144-55-8	0%	0%
			Sodium chloride	7647-14-5	0%	0%
			Sodium glycollate	2836-32-0	0%	0%
			Sodium hydroxide	1310-73-2	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 Title: Regulatory Analyst

Date: 9/12/2014

E-mail Address: sdavis@conchoresources.com

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