

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

HYDRAULIC FRACTURING FLUID
DISCLOSURE

☒ Original
☐ Amendment

4. Surface Hole Location:
Unit:P Lot:P Section:36 Township:23S Range:32E
Feet from:400 N/S Line:S
Feet from:1260 E/W Line:E

5. Bottom Hole Location:
Unit:A Lot:A Section:36 Township:23S Range:32E
Feet from:330 N/S Line:N
Feet from:1292 E/W Line:E

6. latitude: longitude:
32.2551186113789 -103.623823345912

7. County:
Lea

8. Operator Name and Address:
COG PRODUCTION, LLC
600 W. Illinois Ave
Midland 79701

9. OGRID: 217955

10. Phone Number: 432-685-4372

11. Last Fracture Date: 2/9/2015 Frac Performed by: Halliburton

12. Production Type:
O

13. Pool Code(s):
96603

14. Gross Fractured Interval:
11,071 ft to 15,174 ft

15. True Vertical Depth (TVD):
10,994 ft

16. Total Volume of Fluid Pumped:
2,800,254 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%	85.21077%
FE ACID - <10% HCL	Halliburton		Hydrochloric acid	7647-01-0	10%	0.21806%
Atlas CRC-C 30/50	Halliburton				100%	11.93199%
HAI-OS ACID INHIBITOR	Halliburton	Corrosion Inhibitor	Methanol	67-56-1	60%	0.00202%
			Propargyl alcohol	107-19-7	10%	0.00034%
LoSurf-360W	Halliburton	Surfactant	Complex alkylamine	Confidential Business Information	5%	0.00217%
			Glycerine	56-81-5	10%	0.00435%
			Poly(oxy-1,2-ethanediyl), ,alpha.-isodecyl.-omega.-hydroxy-	61827-42-7	30%	0.01304%
Cia-Web™	Halliburton	Additive	Ammonium salt	Confidential Business Information	60%	0.02771%
CLA-STA XP ADDITIVE	Halliburton	Clay Stabilizer	Polyepichlorohydrin, trimethyl amine quaternized	51838-31-4	60%	0.01078%
BE-9	Halliburton	Biocide	Tributyl tetradecyl phosphonium chloride	81741-28-8	10%	0.00411%
MO-67	Halliburton	pH Control Additive	Sodium hydroxide	1310-73-2	30%	0.00815%
CL-22 UC	Halliburton	Crosslinker	Potassium formate	590-29-4	60%	0.03798%
CL-31 CROSSLINKER	Halliburton	Crosslinker	Potassium hydroxide	1310-58-3	5%	0.00136%
			Potassium metaborate	13709-94-9	60%	0.01627%
D-AIR 3000L	Halliburton	Defoamer	Alkenes	Confidential Business Information	100%	0.0251%
			Silica, amorphous precipitated	67762-90-7	30%	0.00753%
SALT	Halliburton	Additive	Sodium chloride	7647-14-5	100%	0.04586%
SP BREAKER	Halliburton	Breaker	Sodium persulfate	7775-27-1	100%	0.07485%
BE-6 MICROBIOCID	Halliburton	Biocide	2-Bromo-2-nitro-1,3-propanediol	52-51-7	100%	9E-05%
OPTIFLO-III DELAYED RELEASE BREAKER	Halliburton	Breaker	Ammonium persulfate	7727-54-0	100%	0.00911%
			Crystalline silica, quartz	14808-60-7	30%	0.00273%
SP BREAKER	Halliburton	Breaker	Sodium persulfate	7775-27-1	100%	0.00036%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.21201%
Scalecheck® SCP-2 Scale Inhibitor	Halliburton	Scale Preventer	Glassy calcium magnesium phosphate	65997-17-3	100%	0.01981%
SALT	Halliburton	Additive	Sodium chloride	7647-14-5	100%	0.01981%
Ingredients Listed Below This Line Are Part of the			Acetic acid	64-19-7	0%	0%
			Acetic anhydride	108-24-7	0%	0%
			Acrylate polymer	Confidential Business Information	0%	0%
			Alcohols, C14-C15, ethoxylated	68951-67-7	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%
			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%
			Ethylenediaminetetraacetic acid, tetrasodium salt	64-02-8	0%	0%
			Fatty acids, tall oil	Confidential Business Information	0%	0%
			Hydrogen peroxide	7722-84-1	0%	0%
			Nitrotriacetic acid, trisodium salt monohydrate	5064-31-3	0%	0%
			Olefins	Confidential Business Information	0%	0%
			Olefins	Confidential Business Information	0%	0%
			Olefins	Confidential Business Information	0%	0%
			Olefins	Confidential Business Information	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%
			Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide	68527-49-1	0%	0%
			Silica gel	112926-00-8	0%	0%
			Sodium bicarbonate	144-55-8	0%	0%
			Sodium carboxymethyl cellulose	9004-32-4	0%	0%
			Sodium chloride	7647-14-5	0%	0%
			Sodium glycolate	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

Senior Regulatory

Date: 3/26/2015 Title: Analyst

E-mail Address: sdavis@concho.com

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