

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:
30-015-42332

2. Well Name:
GRAHAM CRACKER 16 STATE #007H

3. Well Number:
007H

HYDRAULIC FRACTURING FLUID
DISCLOSURE
☒ Original
☐ Amendment

4. Surface Hole Location:
Unit:B Lot:B Section:16 Township:26S Range:28E
Feet from:135 N/S Line:N
Feet from:1810 E/W Line:E

5. Bottom Hole Location:
Unit:O Lot:O Section:16 Township:26S Range:28E
Feet from:343 N/S Line:S
Feet from:1808 E/W Line:E

6. latitude: longitude:
32.0493711031494 -104.089841244555

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: 10/18/2014 Frac Performed by: Halliburton

12. Production Type:
O

13. Pool Code(s):
30215

14. Gross Fractured Interval:
9,360 ft to 13,580 ft

15. True Vertical Depth (TVD):
9,198 ft

16. Total Volume of Fluid Pumped:
5,478,257 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%	85.41562%
FE ACID - <10% HCL	Halliburton		Hydrochloric acid	7647-01-0	10%	0.15127%
Premium White - 20/40	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	10.01764%
CRC - 20/40	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	2.61252%
			Hexamethylenetetramine	100-97-0	2%	0.05225%
			Phenol / formaldehyde resin	9003-35-4	5%	0.13063%
LoSurf-360W	Halliburton	Surfactant	Complex alkylamine	Confidential Business Information	5%	0.0022%
			Glycerine	56-81-5	10%	0.0044%
			Poly(oxy-1,2-ethanedilyl), alpha-isodecyl- omega -hydroxy-	61827-42-7	30%	0.01319%
BE-9	Halliburton	Biocide	Tributyl tetradecyl phosphonium chloride	81741-28-8	10%	0.00467%
SUPERSET W	Halliburton	Activator	Methanol	67-56-1	60%	0.0369%
			Ethoxylated nonylphenol	Confidential Business Information	60%	0.0369%
CLA-STA XP ADDITIVE	Halliburton	Clay Stabilizer	Polyepichlorohydrin, trimethyl amine quaternized	51838-31-4	60%	0.00643%
Cla-Web™	Halliburton	Additive	Ammonium salt	Confidential Business Information	60%	0.02833%
HpH BREAKER	Halliburton	Breaker	Sodium chloride	7647-14-5	30%	0.0001%
MO-67	Halliburton	pH Control Additive	Sodium hydroxide	1310-73-2	30%	0.00024%
BC-140 X2	Halliburton	Initiator	Ethylene glycol	107-21-1	30%	0.00773%
			Monoethanolamine borate	26038-87-9	100%	0.02576%
3rd Party Scale Inhibitor	Operator	*3rd Party Additive	*Supplied by Operator		100%	0.00254%
BE-6 MICROBIOCID	Halliburton	Biocide	2-Bromo-2-nitro-1,3-propanediol	52-51-7	100%	4E-05%
OPTIFLO-HTE	Halliburton	Breaker	Crystalline silica, quartz	14808-60-7	30%	0.00162%
			Walnut hulls	Mixture	100%	0.0054%
Scalechek® SCP-2 Scale Inhibitor	Halliburton	Scale Preventer	Glassy calcium magnesium phosphate	65997-17-3	100%	0.01402%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.18257%
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%
			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%
			C.I. Pigment Red 5	6410-41-9	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%
			Cured acrylic resin	Confidential Business Information	0%	0%
			Enzyme	Confidential Business Information	0%	0%
			Enzyme	Confidential Business Information	0%	0%
			Ethylenediaminetetraacetic acid, tetrasodium salt	64-02-8	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 glycolate	2836-32-0	0%	0%
			Sodium hydroxide	1310-73-2	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: 4/27/2015

E-mail Address: sdavis@conchoresources.com

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