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. 30-025-42210

2. Well Name: LUSK DEEP UNIT A #032H

3. Well Number: 032H

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:L Lot:L Section:20 Township:19S Range:32E
Feet from:1980 N/S Line:S
Feet from:400 E/W Line:W

5. Bottom Hole Location:
Unit:I Lot:I Section:20 Township:19S Range:32E
Feet from:2188 N/S Line:S
Feet from:340 E/W Line:E

6. latitude: 32.6441434036641 longitude: -103.79563492344

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: 2/5/2015 Frac Performed by: Halliburton

12. Production Type: O

13. Pool Code(s): 41440

14. Gross Fractured Interval: 9,443 ft to 13,510 ft

15. True Vertical Depth (TVD): 9,298 ft

16. Total Volume of Fluid Pumped: 5,134,141 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	Base Fluid	Fresh Water	7732-18-5	100%	85.70512%
FE Acid < 10%	Halliburton				100%	1.45346%
SAND - PREMIUM WHITE	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	9.95606%
CRC SAND	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	2.46931%
			Hexamethylenetetramine	100-97-0	2%	0.04939%
			Phenol / formaldehyde resin	9003-35-4	5%	0.12347%
LOSURF-360W	Halliburton	Surfactant	Complex alkylamine	Confidential	5%	0.00226%
			Glycerine	56-81-5	10%	0.00452%
			Poly(oxy-1,2-ethanediyl), .alpha.-isodecyl-.omega.-hydroxy-	61827-42-7	30%	0.01357%
BE-9	Halliburton	Biocide	Tributyl tetradecyl phosphonium chloride	81741-28-8	10%	0.00415%
SUPERSET W	Halliburton	Activator	Methanol	67-56-1	60%	0.034%
			Ethoxylated nonylphenol	Confidential	60%	0.034%
CLA-STA XP ADDITIVE	Halliburton	Clay Stabilizer	Polyepichlorohydrin, trimethyl amine quaternized	51838-31-4	60%	0.00714%
Cla-Web(TM)	Halliburton	Additive	Ammonium salt	Confidential	60%	0.02812%
MO-67	Halliburton	pH Control Additive	Sodium hydroxide	1310-73-2	30%	0.00197%
HpH BREAKER	Halliburton	Breaker	Sodium chloride	7647-14-5	30%	9E-05%
AG-1	Halliburton				100%	0%
BC-140 X2	Halliburton	Initiator	Ethylene glycol	107-21-1	30%	0.00605%
			Monoethanolamine borate	26038-87-9	100%	0.02018%
SALT	Halliburton	Additive	Sodium chloride	7647-14-5	100%	0.04628%
BE-6 MICROBIOCIDE	Halliburton	Biocide	2-Bromo-2-nitro-1,3-propanediol	52-51-7	100%	5E-05%
Scalechek(R) SCP-2 Scale Inhibitor	Halliburton	Scale Preventer	Glassy calcium magnesium phosphate	65997-17-3	100%	0.01386%
OPTIFLO-HTE	Halliburton	Breaker	Crystalline silica, quartz	14808-60-7	30%	0.0016%
			Walnut hulls	Mixture	100%	0.00533%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.12133%
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%
			Alkane	Confidential	0%	0%
			Amine salts	Confidential	0%	0%
			Amine salts	Confidential	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%
			Crystalline Silica, Quartz	14808-60-7	0%	0%
			Cured acrylic resin	Confidential	0%	0%
			Cured acrylic resin	Confidential	0%	0%
			Enzyme	Confidential	0%	0%
			Enzyme	Confidential	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	0%	0%
			Quaternary amine	Confidential	0%	0%
			Quaternary amine	Confidential	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%
			Surfactant mixture	Confidential	0%	0%
			Surfactant mixture	Confidential	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: 3/16/2015

E-mail Address: sdavis@conchoresources.com

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