

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:
30-015-42736

2. Well Name:
MOSSY FEDERAL #002H

3. Well Number:
002H

HYDRAULIC FRACTURING FLUID
DISCLOSURE

☒ Original
☐ Amendment

4. Surface Hole Location:
Unit:H Lot:H Section:12 Township:20S Range:29E
Feet from:1650 N/S Line:N
Feet from:330 E/W Line:E

5. Bottom Hole Location:
Unit:H Lot:H Section:7 Township:20S Range:30E
Feet from:2269 N/S Line:N
Feet from:373 E/W Line:E

6. latitude: longitude:
32.5906282897524 -104.021000764534

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: 2/11/2015 Frac Performed by: Halliburton

12. Production Type:
O

13. Pool Code(s):
49622

14. Gross Fractured Interval:
8,858 ft to 13,260 ft

15. True Vertical Depth (TVD):
8,481 ft

16. Total Volume of Fluid Pumped:
5,753,147 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	(CA5 #) Chemical Abstract Service #	Maximum Ingredient Concentration in Additive (% by mass)	Maximum Ingredient Concentration in HF Fluid (% by mass)
Fresh Water	Operator				100%	86.11283%
FE ACID - <10% HCL	Halliburton		Hydrochloric acid	7647-01-0	10%	0.14131%
CRC - LT 20/40	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	2.37632%
			Hexamethylenetetramine	100-97-0	2%	0.04753%
			Phenol / formaldehyde resin	9003-35-4	5%	0.11882%
Premium White - 20/40	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	9.75677%
LoSurf-360W	Halliburton	Surfactant	Complex alkylamine	Confidential Business Information	5%	0.00222%
			Glycerine	56-81-5	10%	0.00445%
			Poly(oxy-1,2-ethanediyl), alpha -isodecyl- omega -hydroxy-	61827-42-7	30%	0.01334%
BE-9	Halliburton	Biocide	Tributyl tetradecyl phosphonium chloride	81741-28-8	10%	0.00421%
CLA-STA XP ADDITIVE	Halliburton	Clay Stabilizer	Polyeipichlorohydrin, trimethyl amine quaternized	51838-31-4	60%	0.00736%
Cla-Web™	Halliburton	Additive	Ammonium salt	Confidential Business Information	60%	0.02858%
HpH BREAKER	Halliburton	Breaker	Sodium chloride	7647-14-5	30%	0.0001%
HAI-OS ACID INHIBITOR	Halliburton	Corrosion Inhibitor	Methanol	67-56-1	60%	0.00145%
			Propargyl alcohol	107-19-7	10%	0.00024%
			Ethylene glycol	107-21-1	30%	0.0069%
BC-140 X2	Halliburton	Initiator	Monoethanolamine borate	26039-87-9	100%	0.02301%
D-AIR 3000L	Halliburton	Defoamer	Alkenes	Confidential Business Information	100%	0.00146%
			Silica, amorphous precipitated	67762-90-7	30%	0.00044%
Scaletrol	Halliburton				100%	0%
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%	0.00158%
			Walnut hulls	Mixture	100%	0.00528%
Scalechek® SCP-2 Scale Inhibitor	Halliburton	Scale Preventer	Glassy calcium magnesium phosphate	65997-17-3	100%	0.01346%
Parasorb	Halliburton				100%	0.01346%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.13604%
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%
			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%
			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%
			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 chloride	7647-14-5	0%	0%
			Sodium glycolate	2838-32-0	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: 4/22/2015

E-mail Address: sdavis@conchoresources.com

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