

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:
30-025-41674

2. Well Name:
OSPREY 20 STATE COM #004H

3. Well Number:
004H

HYDRAULIC FRACTURING FLUID
DISCLOSURE

☒ Original
☐ Amendment

4. Surface Hole Location:
Unit:L Lot:L Section:20 Township:21S Range:34E
Feet from:2450 N/S Line:S
Feet from:330 E/W Line:W

5. Bottom Hole Location:
Unit:M Lot:M Section:29 Township:21S Range:34E
Feet from:340 N/S Line:S
Feet from:376 E/W Line:W

6. latitude: 32.4637724088608 longitude: -103.49942677482

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: 2/3/2015 Frac Performed by: Halliburton

12. Production Type:
O

13. Pool Code(s):
97962

14. Gross Fractured Interval:
11,200 ft to 17,875 ft

15. True Vertical Depth (TVD):
10,982 ft

16. Total Volume of Fluid Pumped:
10,746,637 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%	87.51451%
FE ACID - <10% HCL	Halliburton		Hydrochloric acid	7647-01-0	10%	0.17322%
SSA-2	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	0.66161%
SAND - PREMIUM WHITE	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	2.16352%
CRC SAND PREMIUM	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	7.48459%
			Hexamethylenetetramine	100-97-0	2%	0.14969%
			Phenol / formaldehyde resin	9003-35-4	5%	0.37423%
HAI-OS ACID INHIBITOR	Halliburton	Corrosion Inhibitor	Methanol	67-56-1	60%	0.00178%
			Propargyl alcohol	107-19-7	10%	0.0003%
LoSurf-360W	Halliburton	Surfactant	Complex alkylamine	Confidential Business Information	5%	0.00232%
			Glycerine	56-81-5	10%	0.00463%
			Poly(oxy-1,2-ethanediyl), alpha -isodecyl- omega -hydroxy-	61827-42-7	30%	0.0139%
BE-9W	Halliburton	Biocide	Tributyl tetradecyl phosphonium chloride	81741-28-8	10%	0.00445%
CLA-STA XP ADDITIVE	Halliburton	Clay Stabilizer	Polyeppichlorohydrin, trimethyl amine quaternized	51838-31-4	60%	0.00911%
Cla-Web™	Halliburton	Additive	Ammonium salt	Confidential Business Information	60%	0.02973%
MO-67	Halliburton	pH Control Additive	Sodium hydroxide	1310-73-2	30%	0.00333%
CL-31 CROSSLINKER	Halliburton	Crosslinker	Potassium hydroxide	1310-58-3	5%	0.00098%
			Potassium metaborate	13709-94-9	60%	0.01181%
D-AIR 3000L	Halliburton	Defoamer	Alkenes	Confidential Business Information	100%	0.01293%
			Silica, amorphous precipitated	67762-90-7	30%	0.00388%
CL-22 UC	Halliburton	Crosslinker	Potassium formate	590-29-4	60%	0.01589%
Scaletrol 720	Baker Hughes	Scale Inhibitor	Ethylene glycol	107-21-1	30%	0.00764%
			Calcium chloride	10043-52-4	5%	0.00127%
BE-6 MICROBIOCIDE	Halliburton	Biocide	2-Bromo-2-nitro-1,3-propanediol	52-51-7	100%	0.00014%
Scaletrol® SCP-2 Scale Inhibitor	Halliburton	Scale Preventer	Glassy calcium magnesium phosphate	65997-17-3	100%	0.01613%
OPTIFLO-III DELAYED RELEASE BREAKER	Halliburton	Breaker	Ammonium persulfate	7727-54-0	100%	0.00498%
			Crystalline silica, quartz	14808-60-7	30%	0.0015%
SP BREAKER	Halliburton	Breaker	Sodium persulfate	7775-27-1	100%	0.00083%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.15735%
Parasorb 5000	Baker Hughes	Paraffin Inhibitor	Diatomaceous earth, calcined	91053-39-3	60%	0.00598%
			Mineral oil	8042-47-5	30%	0.00299%
			Crystalline silica: Quartz (SiO2)	14808-60-7	1%	0.0001%
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%
			Olefins	Confidential Business Information	0%	0%
			Polypropylene glycol	25322-69-4	0%	0%
			Propylene glycol	57-55-8	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 Title: Regulatory Analyst

Date: 4/15/2015

E-mail Address: sdavis@conchoresources.com

NMOCD does not require the reporting of information beyond MSDS data as described in 29 CFR 1910.1200. NMOCD does not require the reporting or disclosure of proprietary, trade secret or confidential business information.