

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:
30-025-41137

2. Well Name:
BOBWHITE 12 STATE COM #003H

3. Well Number:
003H

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:A Lot:A Section:12 Township:21S Range:33E
Feet from:160 N/S Line:N
Feet from:496 E/W Line:E

5. Bottom Hole Location:
Unit:P Lot:P Section:12 Township:21S Range:33E
Feet from:340 N/S Line:S
Feet from:502 E/W Line:E

6. Latitude: 32.5001063421327 Longitude: -103.519046037952

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: 3/23/2015 Frac Performed by: Halliburton

12. Production Type:
O

13. Pool Code(s):
5535

14. Gross Fractured Interval:
11,813 ft to 15,970 ft

15. True Vertical Depth (TVD):
11,645 ft

16. Total Volume of Fluid Pumped:
3,888,050 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		87.10724%
FE Acid < 10%	Halliburton				100%	3.21908%
SSA-2	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	0.63449%
CRC SAND PREMIUM	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	1.92834%
			Hexamethylenetetramine	100-97-0	2%	0.03857%
			Phenol / formaldehyde resin	9003-35-4	5%	0.09642%
CRC Premium 30/50	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	6.63601%
			Hexamethylenetetramine	100-97-0	2%	0.13272%
			Phenol / formaldehyde resin	9003-35-4	5%	0.3318%
HAI-OS ACID INHIBITOR	Halliburton	Corrosion Inhibitor	Methanol	67-56-1	60%	0.00315%
			Propargyl alcohol	107-19-7	10%	0.00052%
BE-9	Halliburton	Biocide	Tributyl tetradecyl phosphonium chloride	81741-28-8	10%	0.00468%
Cla-Web(TM)	Halliburton	Additive	Ammonium salt	Confidential	60%	0.02878%
D-AIR 3000L	Halliburton	Defoamer	Alkenes	Confidential	100%	0.01137%
			Silica, amorphous precipitated	67762-90-7	30%	0.00341%
MO-67	Halliburton	pH Control Additive	Sodium hydroxide	1310-73-2	30%	0.00435%
CL-31 CROSSLINKER	Halliburton	Crosslinker	Potassium hydroxide	1310-58-3		0.0005%
			Potassium metaborate	13709-94-9	60%	0.00598%
CLA-STA XP ADDITIVE	Halliburton	Clay Stabilizer	Polyepichlorohydrin, trimethyl amine quaternized	51838-31-4	60%	0.0222%
LOSURF-360W	Halliburton	Surfactant	Complex alkylamine	Confidential	5%	0.00225%
			Glycerine	56-81-5	10%	0.00449%
			Poly(oxy-1,2-ethanediyl), alpha -isodecyl- omega -hydroxy-	61827-42-7	30%	0.01347%
CL-22 UC	Halliburton	Crosslinker	Potassium formate	590-29-4	60%	0.01612%
3rd Party Scale Inhibitor	Operator	*3rd Party Additive	*Supplied by Operator		100%	0.02943%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.14852%
BE-6 MICROBIOCID	Halliburton	Biocide	2-Bromo-2-nitro-1,3-propanediol	52-51-7	100%	3E-05%
OPTIFLO-III DELAYED RELEASE BREAKER	Halliburton	Breaker	Ammonium persulfate	7727-54-0	100%	0.00456%
			Crystalline silica, quartz	14808-60-7	30%	0.00137%
SP BREAKER	Halliburton	Breaker	Sodium persulfate	7775-27-1	100%	0.00015%
Scalechek(R) SCP-2 Scale Inhibitor	Halliburton	Scale Preventer	Glassy calcium magnesium phosphate	65997-17-3	100%	0.02948%
3rd Party Additive	Operator	*3rd Party Additive	*Supplied by Operator		100%	0.01806%
Ingredients Listed Below This Line Are Part of the			Acrylate polymer	Confidential	0%	0%
			Alcohols, C14-C15, ethoxylated	68951-67-7	0%	0%
			Alkane	Confidential	0%	0%
			Amine salts	Confidential	0%	0%
			Amine salts	Confidential	0%	0%
			Bentonite, benzy(hydrogenated tallow alkyl) dimethylammonium stearate complex	121888-68-4	0%	0%
			Borate salts	Confidential	0%	0%
			Crystalline silica, quartz	14808-60-7	0%	0%
			Cured acrylic resin	Confidential	0%	0%
			Ethylenediaminetetraacetic acid, tetrasodium salt	64-02-8	0%	0%
			Fatty acids, tall oil	Confidential	0%	0%
			Hydrogen peroxide	7722-84-1	0%	0%
			Nitrotriactic acid, trisodium salt monohydrate	5064-31-3	0%	0%
			Olefins	Confidential	0%	0%
			Olefins	Confidential	0%	0%
			Olefins	Confidential	0%	0%
			Olefins	Confidential	0%	0%
			Polypropylene glycol	25322-69-4	0%	0%
			Quaternary amine	Confidential	0%	0%
			Quaternary amine	Confidential	0%	0%
			Quaternary amine	Confidential	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	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: 4/28/2015

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.