

Submit within 45 days of well completion

Revised February 15, 2012

**State of New Mexico  
Energy, Minerals and Natural  
Resources  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505**

1. WELL API NO.  
30-015-39718

2. Well Name:  
CONTINENTAL A STATE #023

3. Well Number:  
023

4. Surface Hole Location:  
Unit:D Lot:1 Section:30 Township:17S Range:29E  
Feet from:240 N/S Line:N  
Feet from:940 E/W Line:W

5. Bottom Hole Location:  
Unit:D Lot:1 Section:30 Township:17S Range:29E  
Feet from:240 N/S Line:N  
Feet from:940 E/W Line:W

6. latitude: 32.812203929405 longitude: -  
104.11840737891

7. County:  
Eddy

**HYDRAULIC FRACTURING FLUID DISCLOSURE**

Original  
 Amendment

8. Operator Name and Address:  
COG OPERATING LLC  
550 W TEXAS  
SUITE 1300  
MIDLAND 79701

9. OGRID:  
229137

10. Phone Number:

11. Last Fracture Date: 4/2/2012 Frac Performed by: Halliburton

12. Production Type:  
O

13. Pool Code(s):  
96210

14. Gross Fractured Interval:  
3,806 ft to 5,105 ft

15. True Vertical Depth (TVD):  
5,582 ft

16. Total Volume of Fluid Pumped:  
1,295 bbls

**17. 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%	39.24337%
HCL Acid	Halliburton				100%	0.53456%
Ottawa 16/30	Halliburton				0%	0%
CRC 16/30	Halliburton				0%	0%
BC-140 X2	Halliburton	Initiator	Ethylene glycol	107-21-1	30%	0.12525%
			Monoethanolamine borate	26038-87-9	100%	0.41751%
BE-7™	Halliburton	Biocide	Sodium hydroxide	1310-73-2	2%	0.0037%
			Sodium hypochlorite	7681-52-9	30%	0.05554%
HpH BREAKER	Halliburton	Breaker	Sodium chloride	7647-14-5	30%	0.00095%
LoSurf-300D	Halliburton	Surfactant	1,2,4 Trimethylbenzene	95-63-6	1%	0.00339%
			Ethanol	64-17-5	60%	0.20364%
			Heavy aromatic petroleum naphtha	64742-94-5	30%	0.10182%
			Naphthalene	91-20-3	5%	0.01697%
			Poly(oxy-1,2-ethanediyl),alpha-(4-nonylphenyl)-omega-hydroxy-, branched	127087-87-0	5%	0.01697%
SUPERSET W	Halliburton	Activator	Methanol	67-56-1	60%	0.16779%
			Ethoxylated Nonylphenol	Confidential Business Information	60%	0.16779%
OPTIFLO-HTE	Halliburton	Breaker	Crystalline silica, quartz	14808-60-7	30%	0.00545%
			Walnut hulls	Mixture	100%	0.01817%
K-35	Halliburton	Buffer	Sodium carbonate	497-19-8	100%	0.00433%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.64876%

18. 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: Chasity Jackson Title: Regulatory Analyst  
 Date: 5/22/2012  
 E-mail Address: cjackson@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.