

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				
HYDRAULIC FRACTURING FLUID DISCLOSURE <input checked="" type="checkbox"/> Original <input type="checkbox"/> Amendment		1. WELL API NO. 30-015-41810				
		2. Well Name: MARAUDER 31 FEDERAL #002H				
		3. Well Number: 002H				
		4. Surface Hole Location: Unit:C Lot:C Section:31 Township:19S Range:31E Feet from:330 N/S Line:N Feet from:1770 E/W Line:W				
5. Bottom Hole Location: Unit:N Lot:N Section:31 Township:19S Range:31E Feet from:348 N/S Line:S Feet from:2007 E/W Line:W		6. latitude: 32.6231570539502 longitude: -103.911296977196				
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: 6/25/2014 Frac Performed by: Halliburton		12. Production Type: O				
13. Pool Code(s): 96688		14. Gross Fractured Interval: 9,005 ft to 13,105 ft				
15. True Vertical Depth (TVD): 8,795 ft		16. Total Volume of Fluid Pumped: 3,388,179 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%	85.79638%
FE ACID - <10% HCL	Halliburton		Hydrochloric acid	7647-01-0	10%	0.15676%
20/40 Premium White	Halliburton				100%	9.78581%
CRC - 20/40	Halliburton				100%	2.46082%
LOSURF-360	Halliburton				100%	0%
BE-9	Halliburton	Biocide	Tributyl tetradecyl phosphonium chloride	81741-28-8	10%	0.0042%
SUPERSET W	Halliburton	Activator	Methanol	67-56-1	60%	0.03219%
			Ethoxylated nonylphenol	Confidential Business Information	60%	0.03219%
CLA-STA XP ADDITIVE	Halliburton	Clay Stabilizer	Polyepichlorohydrin, trimethyl amine quaternized	51838-31-4	60%	0.00605%
Cla-Web™	Halliburton	Additive	Ammonium salt	Confidential Business Information	60%	0.02827%
MO-67	Halliburton	pH Control Additive	Sodium hydroxide	1310-73-2	30%	0.00249%
HpH BREAKER	Halliburton	Breaker	Sodium chloride	7647-14-5	30%	8E-05%
BC-140 X2	Halliburton	Initiator	Ethylene glycol	107-21-1	30%	0.00771%
			Monoethanolamine borate	26038-87-9	100%	0.0257%
Parasorb	3rd Party				100%	0.04702%
BE-6 MICROBIOCIDE	Halliburton	Biocide	2-Bromo-2-nitro-1,3-propanediol	52-51-7	100%	0.00011%
Scalechek® SCP-2 Scale Inhibitor	Halliburton	Scale Preventer	Glassy calcium magnesium phosphate	65997-17-3	100%	0.01366%
OPTIFLO-HTE	Halliburton	Breaker	Crystalline silica, quartz	14808-60-7	30%	0.00163%
			Walnut hulls	Mixture	100%	0.00542%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.12245%
Scaletrol	3rd Party				100%	0.01366%
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-sulfur-1-naphthalenyl)azo]-, trisodium salt	915-67-3	0%	0%
			Acetic acid	64-19-7	0%	0%
			Acetic anhydride	108-24-7	0%	0%
			Amine salts	Confidential Business Information	0%	0%
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			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%
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			Enzyme	Confidential Business Information	0%	0%
			Enzyme	Confidential Business Information	0%	0%
			Quaternary amine	Confidential Business Information	0%	0%
			Quaternary amine	Confidential Business Information	0%	0%
			Quaternary amine	Confidential Business Information	0%	0%
			Silica gel	112926-00-8	0%	0%
			Sodium chloride	7647-14-5	0%	0%
Surfactant mixture	Confidential Business Information	0%	0%			
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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: <u>Signed Electronically</u>	Printed Name: <u>Stormi Davis</u>	Title: <u>Regulatory Analyst</u>				
Date: <u>8/13/2014</u>						
E-mail Address: <u>sdavis@conchoresources.com</u>						

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.