

Submit within 45 days of well completion	<b>State of New Mexico</b> <b>Energy, Minerals and Natural Resources</b> <b>Oil Conservation Division</b> <b>1220 S. St Francis Dr.</b> <b>Santa Fe, NM 87505</b>	Revised February 15, 2012				
<b>HYDRAULIC FRACTURING FLUID DISCLOSURE</b> <input checked="" type="checkbox"/> Original <input type="checkbox"/> Amendment		1. WELL API NO: 30-025-40328  2. Well Name: CHAPARRAL 33 FEDERAL COM #004H  3. Well Number: 004H  4. Surface Hole Location: Unit: B Lot: B Section: 33 Township: 19S Range: 34E Feet from: 330 N/S Line: N Feet from: 2010 E/W Line: E  5. Bottom Hole Location: Unit: B Lot: B Section: 33 Township: 19S Range: 34E Feet from: 330 N/S Line: N Feet from: 2010 E/W Line: E  6. Latitude: 32.6231074026574 Longitude: -103.56329925611  7. County: Lea				
8. Operator Name and Address: CIMAREX ENERGY CO. OF COLORADO 600 N. Marienfeld St Suite 600 Midland 79701	9. OGRID: 162683	10. Phone Number: 918-295-1763				
11. Last Fracture Date: 8/15/2013 Frac Performed by: Halliburton	12. Production Type: O					
13. Pool Code(s): 50461	14. Gross Fractured Interval: 10,603 ft to 10,843 ft					
15. True Vertical Depth (TVD): 10,843 ft	16. Total Volume of Fluid Pumped: 1,522,397 gals					
<b>17. HYDRAULIC FLUID COMPOSITION AND CONCENTRATION:</b>						
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	100%	83.58585%
Premium White-20/40	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	11.33519%
CRC Garnet- 20/40	Halliburton	Proppant	Quartz (Crystalline Silica)	14808-60-7	98%	4.40099%
			Polyurethane Resin	Proprietary	5%	0.22454%
			Colorant	Proprietary	1%	0.04491%
BC-140 X2	Halliburton	Initiator	Ethylene glycol	107-21-1	30%	0.02164%
			Monoethanolamine borate	26038-87-9	100%	0.07214%
LOSURF-360	Halliburton	Surfactant	Poly(oxy-1,2-ethanediyl), alpha-isodecyl-omega-hydroxy-	61827-42-7	30%	0.02341%
			Complex alkylamine	Proprietary	5%	0.0039%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.17524%
OPTIFLO-HTE	Halliburton	Breaker	Crystalline silica, quartz	14808-60-7	30%	0.00144%
			Walnut hulls	Proprietary	100%	0.00481%
SP BREAKER	Halliburton	Breaker	Sodium persulfate	7775-27-1	100%	0.00046%
HCL 15%	Petroplex	Acid	Hydrochloric Acid	7647-01-0	15%	0.01502%
Cronox AK-50	Petroplex	Corrosion Inhibitor	Oxyalkylated Alkylphenol	Proprietary	30%	5E-05%
			Heavy Aromatic Naptha	64742-94-5	30%	5E-05%
			Isopropanol	67-63-0	30%	5E-05%
			Fatty Acids	Proprietary	10%	2E-05%
			Complex Alkylaryl Poly-Ester	Proprietary	10%	2E-05%
			Tar Bases, Quinoline Derivatives, Benzyl Chloride-Quaternized	72480-70-7	10%	2E-05%
			Formaldehyde	50-00-0	10%	2E-05%
			Acetylenic Alcohol	Proprietary	5%	1E-05%
			Propargyl Alcohol	107-19-7	5%	1E-05%
			Napthalene	91-20-3	5%	1E-05%
Citric Acid	Petroplex	Iron Control	Citric Acid	77-92-9	100%	0.00501%
EC9546A	Petroplex	Surfactant	Heavy Aromatic Naptha	64742-94-5	10%	2E-05%
			Isopropanol	67-63-0	60%	0.0001%
			Polyethylene Glycol	25322-68-3	5%	1E-05%
			Napthalene	91-20-3	1%	0%
			Phosphoric Acid Ester	Proprietary	10%	2E-05%
			Oxyalkylated Alcohol	Proprietary	10%	2E-05%
			Oxyalkylated Alkyl Alcohol	Proprietary	10%	2E-05%
ClO2	Bosque	Biocide	Chlorine Dioxide	10049-04-4	100%	0.00013%
Ingredients Listed Below This Line Are Part of the			2,7-Naphthalenedisulfonic acid, 3-hydroxy-4-[(4-sulfor-1-naphthalenyl)azo]-, trisodium salt	915-67-3	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%
			Crystalline Silica, Quartz	14808-60-7	0%	0%
			Cured acrylic resin	Proprietary	0%	0%
			Enzyme	Proprietary	0%	0%
			Silica gel	112926-00-8	0%	0%
			Sodium sulfate	7757-82-6	0%	0%
			Surfactant mixture	Proprietary	0%	0%
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: <u>Signed Electronically</u>	Printed Name: <u>Skipper Herring</u>	Title: <u>Manager Stimulation Operations</u>				
Date: <u>9/24/2013</u>						
E-mail Address: <u>sherring@cimarex.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.