

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 February 15, 2012							
		1. WELL API NO. 30-025-40476							
		2. Well Name: HALLERTAU 4 FEDERAL #007H							
		3. Well Number: 007H							
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:B Lot:B Section:4 Township:26S Range:32E Feet from:330 N/S Line:N Feet from:1650 E/W Line:E							
		5. Bottom Hole Location: Unit:B Lot:B Section:4 Township:26S Range:32E Feet from:330 N/S Line:N Feet from:1650 E/W Line:E							
		6. latitude: longitude: 32.0787978403493 - 103.676780196042							
		7. County: Lea							
8. Operator Name and Address: CIMAREX ENERGY CO. OF COLORADO 600 N. Mariefeld St Suite 600 Midland 79701		9. OGRID: 162683		10. Phone Number: 918-295-1763					
11. Last Fracture Date: 1/31/2013 Frac Performed by: Halliburton		12. Production Type: O							
13. Pool Code(s): 97903		14. Gross Fractured Interval: 10,144 ft to 10,716 ft							
15. True Vertical Depth (TVD): 10,716 ft		16. Total Volume of Fluid Pumped: 45,232 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	Cimarex				100%	84.84101%			
Premium White - 20/40	Halliburton				100%	10.6372%			
Garnett CRC - 20/40	Halliburton				100%	4.09715%			
BC-140 X2	Halliburton	Initiator	Ethylene glycol	107-21-1	30%	0.01503%			
			Monoethanolamine borate	26038-87-9	100%	0.05011%			
BA-40LM	Halliburton				100%	0%			
LoSurf-360W	Halliburton	Surfactant	Poly(oxy-1,2-ethanediyl), .alpha.-isodecyl-.omega.-hydroxy- Complex alkylamine	61827-42-7	0.3%	2E-05%			
OPTIFLO-HTE	Halliburton	Breaker	Crystalline silica, quartz Walnut hulls	14808-60-7	30%	0.00141%			
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	Mixture 9000-30-0	100%	0.0047%			
SP BREAKER	Halliburton	Breaker	Sodium persulfate	7775-27-1	100%	0.00056%			
HCL 15%	Petroplex	Acid	Hydrochloric Acid	7647-01-0	15%	0.01755%			
Cronox AK-50	Petroplex	Corrosion Inhibitor	Oxyalkylated Alkylphenol Heavy Aromatic Naptha Isopropanol Fatty Acids Complex Alkylaryl Polyo-Ester Tar Bases, Quinoline Derivatives, Benzyl Chloride-Quaternized Formaldehyde Acetylenic Alcohol Propargyl Alcohol Naphthalene	CBI 64742-94-5 67-63-0 CBI CBI 72480-70-7 50-00-0 CBI 107-19-7 91-20-3	30% 30% 30% 10% 10% 10% 10% 5% 5%	6E-05% 6E-05% 6E-05% 2E-05% 2E-05% 2E-05% 2E-05% 1E-05% 1E-05%			
Citric Acid	Petroplex	Iron Control	Citric Acid	77-92-9	100%	0.00054%			
EC9546A	Petroplex	Surfactant	Heavy Aromatic Naptha Isopropanol Polyethylene Glycol Naphthalene Phosphoric Acid Ester Oxyalkylated Alcohol Oxyalkylated Alkyl Alcohol	64742-94-5 67-63-0 25322-68.3 91-20-3 CBI CBI CBI	10% 60% 5% 1% 10% 10% 10%	2E-05% 0.00012% 1E-05% 0% 2E-05% 2E-05% 2E-05%			
CIO2	Bosque	Biocide	Chlorine Dioxide	10049-04-4	100%	0.0001%			
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	Confidential Business Information	0%	0%			
			Cured Acrylic Resin	Confidential Business Information	0%	0%			
			Enzyme	Confidential Business Information	0%	0%			
			Silica gel	112926-00-8	0%	0%			
			Sodium sulfate	7757-82-6	0%	0%			
			Surfactant Mixture	Confidential Business Information	0%	0%			
			Surfactant Mixture	Confidential Business Information	0%	0%			
			Water	7732-18-5	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: Signed Electronically		Printed Name: Skipper Herring		Manager Stimulation		
Date: 2/18/2013				Title: Operations					
E-mail Address: sherring@cimarex.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.