

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: 30-025-40475				
		2. Well Name: HALLERTAU 4 FEDERAL #004H				
		3. Well Number: 004H				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:A Lot:A Section:4 Township:26S Range:32E Feet from:330 N/S Line:N Feet from:660 E/W Line:E				
		5. Bottom Hole Location: Unit:A Lot:A Section:4 Township:26S Range:32E Feet from:330 N/S Line:N Feet from:660 E/W Line:E				
		6. Latitude: 32.078808240412 Longitude: - 103.673568588047				
		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: 432-620-1938		
11. Last Fracture Date: 8/4/2012 Frac Performed by: Halliburton		12. Production Type: O				
13. Pool Code(s): 97903		14. Gross Fractured Interval: 9,009 ft to 9,160 ft				
15. True Vertical Depth (TVD): 9,160 ft		16. Total Volume of Fluid Pumped: 72,677 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%	91.23654%
100 Mesh	Halliburton				100%	1.56624%
Premium Brown 20/40	Halliburton				100%	6.82423%
BC-140 X2	Halliburton	Initiator	Ethylene glycol Monoethanolamine borate	107-21-1 26038-87-9	30% 100%	0.00733% 0.02445%
MO-67	Halliburton	pH Control Additive	Sodium hydroxide	1310-73-2	30%	0.0026%
LOSURF-300 NONIONIC SURFACTANT	Halliburton	Surfactant	Isopropanol Light aromatic solvent Ethoxylated nonylphenol	67-63-0 64742-95-6 Confidential Business Information	60% 30% 10%	0.03202% 0.01601% 0.00534%
BE-9	Halliburton	Biocide	Tributyl tetradecyl phosphonium chloride	81741-28-8	10%	0.00303%
FR-66	Halliburton	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8	30%	0.00705%
WG-35 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.11945%
OPTIFLO-HTE	Halliburton	Breaker	Crystalline silica, quartz Walnut hulls	14808-60-7 Mixture	30% 100%	0.00037% 0.00123%
OptiKleen-WF™	Halliburton	Concentrate	Sodium perborate tetrahydrate	10486-00-7	100%	0.00256%
SP BREAKER	Halliburton	Breaker	Sodium persulfate	7775-27-1	100%	0.00027%
HCL 15%	Petroplex	Acid	Hydrochloric Acid	7647-01-0	15%	0.02251%
Cronox AK-50	Petroplex	Corrosion Inhibitor	Oxyalkylated Alkylphenol Heavy Aromatic Naptha Isopropanol Fatty Acids Complex Alkylaryl Poly-Ester Tar Bases, Quinoline Derivatives, Benzyl Chloride-Quaternized Formaldehyde Acetylenic Alcohol Propargyl Alcohol Napthalene	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% 5%	8E-05% 8E-05% 8E-05% 3E-05% 3E-05% 3E-05% 3E-05% 1E-05% 1E-05% 1E-05%
Citric Acid	Petroplex	Iron Control	Citric Acid	77-92-9	100%	0.0007%
EC9546A	Petroplex	Surfactant	Heavy Aromatic Naptha Isopropanol Polyethylene Glycol Napthalene 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%	3E-05% 0.00016% 1E-05% 0% 3E-05% 3E-05% 3E-05%
Ingredients Listed Below This Line Are Part of the			2,7-Naphthalenedisulfonic acid, 3-hydroxy-4-[(4-sulfor-1-naphthalenyl) azo] -, trisodium salt Alcohols, C12-16, ethoxylated Ammonium chloride C.I. Pigment Red 5 Crystalline silica, quartz Cured Acrylic Resin Cured Acrylic Resin Enzyme Ethoxylated Nonylphenol Formaldehyde polymer with 4,1,1-dimethylethyl phenolmethyl oxirane Formaldehyde polymer with methyl oxirane, 4-nonylphenol and oxirane Modified Bentonite Napthalene Polyacrylamide Copolymer Silica, amorphous - fumed Sodium chloride Sodium sulfate Sorbitan monooleate polyoxyethylene derivative Sorbitan, mono-9-octadecenoate, (Z) Tall oil acid diethanolamide Water	915-67-3 68551-12-2 12125-02-9 6410-41-9 14808-60-7 Confidential Business Information Confidential Business Information Confidential Business Information Confidential Business Information 29316-47-0 63428-92-2 Confidential Business Information 91-20-3 Confidential Business Information 7631-86-9 7647-14-5 7757-82-6 9005-65-6 1338-43-8 68155-20-4 7732-18-5	0% 0%	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: 8/20/2012		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.