

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: 30-015-40784							
		2. Well Name: CRESENT HALE 10 FEDERAL #003H							
		3. Well Number: 003H							
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:K Lot:K Section:11 Township:19S Range:30E Feet from:2250 N/S Line:S Feet from:2025 E/W Line:W							
		5. Bottom Hole Location: Unit:K Lot:K Section:11 Township:19S Range:30E Feet from:2250 N/S Line:S Feet from:2025 E/W Line:W							
		6. Latitude: Longitude: 32.673808519412 - 103.944676467302							
		7. County: Eddy							
8. Operator Name and Address: CIMAREX ENERGY CO. OF COLORADO 600 N. Marlenfeld St Suite 600 Midland 79701		9. OGRID: 162683		10. Phone Number: 918-295-1763					
11. Last Fracture Date: 5/30/2013 Frac Performed by: Halliburton		12. Production Type: O							
13. Pool Code(s): 97020		14. Gross Fractured Interval: 8,439 ft to 8,542 ft							
15. True Vertical Depth (TVD): 8,542 ft		16. Total Volume of Fluid Pumped: 48,583 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	Carrier / Base Fluid	Water	7732-18-5	100%	82.41036%			
Premium White-20/40	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	12.12426%			
Garnett CRC-20/40	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	4.90959%			
BC-140 X2	Halliburton	Initiator	Ethylene glycol	107-21-1	30%	0.02134%			
			Monoethanolamine borate	26038-87-9	100%	0.07112%			
BA-40L BUFFERING AGENT	Halliburton	Buffer	Potassium carbonate	584-08-7	60%	0.02192%			
LoSurf-300W	Halliburton	Non-ionic Surfactant	1,2,4 Trimethylbenzene	95-63-6	1%	0.00081%			
			Ethanol	64-17-5	60%	0.04848%			
			Heavy aromatic petroleum naphtha	64742-94-5	30%	0.02424%			
			Glycerine	56-81-5	0.1%	0.00404%			
			Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched	127087-87-0	0.3%	0.00404%			
SP BREAKER	Halliburton	Breaker	Sodium persulfate	7775-27-1	100%	0.00049%			
OPTIFLO-HTE	Halliburton	Breaker	Crystalline silica, quartz	14808-60-7	30%	0.00149%			
			Walnut hulls	Proprietary	100%	0.00497%			
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.24196%			
HCL 15%	Petroplex	Acid	Hydrochloric Acid	7647-01-0	15%	0.01579%			
Cronox AK-50	Petroplex	Corrosion Inhibitor	Oxyalkylated Alkylphenol	Proprietary	30%	6E-05%			
			Heavy Aromatic Naptha	64742-94-5	30%	6E-05%			
			Isopropanol	67-63-0	30%	6E-05%			
			Fatty Acids	Proprietary	10%	2E-05%			
			Complex Alkylaryl Polyo-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%	0.00527%			
EC9546A	Petroplex	Surfactant	Heavy Aromatic Naptha	64742-94-5	10%	2E-05%			
			Isopropanol	67-63-0	60%	0.00011%			
			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%			
CIO2	Bosque	Biocide	Chlorine Dioxide	10049-04-4	100%	0.00014%			
Ingredients Listed Below This Line Are Part of the			2,7-Naphthalenedisulfonic acid, 3-hydroxy-4-[(4-sulfur-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%			
			Cured Acrylic Resin	9002-98-6	0%	0%			
			Enzyme	9025-56-3	0%	0%			
			Oxyalkylated Phenolic Resin	29316-47-0	0%	0%			
			Oxyalkylated Phenolic Resin	63428-92-2	0%	0%			
			Silica gel	112926-00-8	0%	0%			
			Sodium sulfate	7757-82-6	0%	0%			
			Surfactant Mixture	67254-71-1	0%	0%			
			Surfactant Mixture	56449-46-8	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		
							Title: Operations		
Date: 7/2/2013									
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.									