

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							
		1. WELL API NO: 30-025-41141							
		2. Well Name: QUAIL 11 STATE #003H							
		3. Well Number: 003H							
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit: M Lot: M Section: 11 Township: 19S Range: 34E Feet from: 330 N/S Line: S Feet from: 530 E/W Line: W							
		5. Bottom Hole Location: Unit: M Lot: M Section: 11 Township: 19S Range: 34E Feet from: 330 N/S Line: S Feet from: 530 E/W Line: W							
		6. Latitude: 32.6684864837205 Longitude: 103.537827463959							
		7. County: Lea							
8. Operator Name and Address: CIMAREX ENERGY CO. 600 N MARIENFELD STREET SUITE 600 MIDLAND 79701		9. OGRID: 215099		10. Phone Number:					
11. Last Fracture Date: 4/17/2014 Frac Performed by: Halliburton		12. Production Type: O							
13. Pool Code(s): 55610		14. Gross Fractured Interval: 10,762 ft to 10,870 ft							
15. True Vertical Depth (TVD): 10,870 ft		16. Total Volume of Fluid Pumped: 1,507,122 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	Base Fluid	Fresh Water	7732-18-5	100%	83.95259%			
Premium White 20/40	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	10.28547%			
CRC Garnet- 20/40	Halliburton	Proppant	Quartz (SiO2) (Crystalline Silica)	14808-60-7	98%	5.02684%			
			Polyurethane Resin	NA	5%	0.25647%			
Losurf 360	Halliburton	Surfactant	Colorant	NA	1%	0.05129%			
			Poly(oxy-1,2-ethanediyl), .alpha.-isodecyl-.omega.-hydroxy-	61827-42-7	30%	0.02524%			
BC-140 X2	Halliburton	Initiator	Complex alkylamine	Proprietary	5%	0.00421%			
			Ethylene glycol	107-21-1	30%	0.0198%			
BA-40L BUFFERING AGENT	Halliburton	Buffer	Monoethanolamine borate	26038-87-9	100%	0.06601%			
			Potassium carbonate	584-08-7	60%	0.02479%			
OPTIFLO-III DELAYED RELEASE BREAKER	Halliburton	Breaker	Ammonium persulfate	7727-54-0	100%	0.00535%			
			Crystalline silica, quartz	14808-60-7	30%	0.0016%			
SP BREAKER	Halliburton	Breaker	Sodium persulfate	7775-27-1	100%	0.00294%			
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.15484%			
HCL 15%	Petroplex	Acid	Hydrochloric Acid	7647-01-0	15%	0.01744%			
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%	0.00582%
			EC9546A	Petroplex	Surfactant	Heavy Aromatic Naptha	64742-94-5	10%	2E-05%
						Isopropanol	67-63-0	60%	0.00012%
						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%	9E-05%
			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%			
			Crystalline Silica, Quartz	14808-60-7	0%	0%			
			Cured acrylic resin	Proprietary	0%	0%			
			Silica gel	112926-00-8	0%	0%			
			Sodium sulfate	7757-82-6	0%	0%			
			Surfactant mixture	Proprietary	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: Signed Electronically		Printed Name: Skipper Herring		Manager Stimulation Title: Operations					
Date: 5/19/2014									
E-mail Address: sherring@cmarex.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.