

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: 30-025-40252							
		2. Well Name: HT 18 FEDERAL #004							
		3. Well Number: 004							
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒Original ☐Amendment		4. Surface Hole Location: Unit:L Lot:3 Section:18 Township:17S Range:32E Feet from:2410 N/S Line:S Feet from:330 E/W Line:W							
		5. Bottom Hole Location: Unit:L Lot:3 Section:18 Township:17S Range:32E Feet from:2410 N/S Line:S Feet from:330 E/W Line:W							
		6. latitude: longitude: 32.8340160884812 - 103.813469558827							
		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: 10/26/2013 Frac Performed by: Baker Hughes		12. Production Type: O							
13. Pool Code(s): 44500		14. Gross Fractured Interval: 5,300 ft to 6,707 ft							
15. True Vertical Depth (TVD): 6,707 ft		16. Total Volume of Fluid Pumped: 2,393,346 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)			
Water	Operator	Carrier	Water	7732-18-5	100%	94.99004%			
High Perm CRB	Baker Hughes	Breaker	Ammonium Persulphate	7727-54-0	100%	0.00602%			
MaxPerm-20A, 265 gallon tote	Baker Hughes	Friction Reducer	Oxyalkylated Alcohol	Proprietary	5%	0.00708%			
			Petroleum Distillates	64742-47-8	30%	0.04247%			
			Polyacrylate	Proprietary	60%	0.08494%			
			Sodium Chloride	7647-14-5	3%	0.00425%			
Sand, White, 100 mesh	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	0.47934%			
Sand, Brown, 30/50	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	4.05674%			
ScaleSorb 7 (50 lb)	Baker Hughes	Scale Inhibitor	Crystalline Silica (Quartz)	14808-60-7	1%	0.00033%			
			Diotomaceous Earth, Calcined	91053-39-3	100%	0.03311%			
			Organo Phosphorus Salt	Proprietary	30%	0.00993%			
			Sodium Chloride	7647-14-5	10%	0.00331%			
InFlo 250G, 330 gl tote	Baker Hughes	Surfactant	Methanol	67-56-1	30%	0.0505%			
			Mixture of Surfactants	Proprietary	50%	0.08416%			
			Water	7732-18-5	30%	0.0505%			
HCL 15%	Petroplex	Acid	Hydrochloric Acid	7647-01-0	15%	0.00308%			
Cronox AK-50	Petroplex	Corrosion Inhibitor	Oxyalkylated Alkylphenol	Proprietary	30%	1E-05%			
			Heavy Aromatic Naptha	64742-94-5	30%	1E-05%			
			Isopropanol	67-63-0	30%	1E-05%			
			Fatty Acids	Proprietary	10%	0%			
			Complex Alkylaryl Poly-Ester	Proprietary	10%	0%			
			Tar Bases, Quinoline Derivatives, Benzyl Chloride-Quaternized	72480-70-7	10%	0%			
			Formaldehyde	50-00-0	10%	0%			
			Acetylenic Alcohol	Proprietary	5%	0%			
			Propargyl Alcohol	107-19-7	5%	0%			
			Napthalene	91-20-3	5%	0%			
			Citric Acid	Petroplex	Iron Control	Citric Acid	77-92-9	100%	0.00103%
			EC9546A	Petroplex	Surfactant	Heavy Aromatic Naptha	64742-94-5	10%	0%
						Isopropanol	67-63-0	60%	2E-05%
Polyethylene Glycol	25322-68-3	5%				0%			
Napthalene	91-20-3	1%				0%			
Phosphoric Acid Ester	Proprietary	10%				0%			
Oxyalkylated Alcohol	Proprietary	10%				0%			
Oxyalkylated Alkyl Alcohol	Proprietary	10%				0%			
CIO2	Bosque	Biocide				Chlorine Dioxide	10049-04-4	100%	0.00013%
Ingredients shown above are subject to 29 CFR 1910			Cured Resin	Proprietary	0%	0.00145%			
			Oleate Ester	1338-43-8	0%	0.00425%			
			Polysorbate	9005-65-6	0%	0.00425%			
			Sodium Bisulfate	7631-90-5	0%	0.00018%			
			Sodium Sulfonate	870-72-4	0%	5E-05%			
			Water	7732-18-5	0%	0.06536%			
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 Date: 11/19/2013 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.