

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. 30-025-34342							
		2. Well Name: R E GRAHAM 7 #003							
		3. Well Number: 003							
<b>HYDRAULIC FRACTURING FLUID DISCLOSURE</b>  <input checked="" type="checkbox"/> <b>Original</b>  <input type="checkbox"/> <b>Amendment</b>		4. Surface Hole Location: Unit:N    Lot:N    Section:7    Township:18S    Range:32E Feet from:660    N/S Line:S Feet from:1650    E/W Line:W							
		5. Bottom Hole Location: Unit:N    Lot:N    Section:7    Township:18S    Range:32E Feet from:660    N/S Line:S Feet from:1650    E/W Line:W							
		6. latitude:    longitude: 32.7566643    -103.8090744							
		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: 7/3/2017    Frac Performed by: Halliburton		12. Production Type: O							
13. Pool Code(s): 65350		14. Gross Fractured Interval: 8,660 ft to 8,748 ft							
15. True Vertical Depth (TVD): 8,748 ft		16. Total Volume of Fluid Pumped: 142,913 gals							
17. Total Volume of Re-Use Water Pumped: N/A		18. Percent of Re-Use Water in Fluid Pumped: Not Disclosed							
19. <b>HYDRAULIC FLUID COMPOSITION AND CONCENTRATION:</b>									
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	Water	7732-18-5	100%	79.67899%			
BC-140 X2	Halliburton	Initiator	Listed Below	Listed Below	0%	0%			
FE-2A	Halliburton	Additive	Listed Below	Listed Below	0%	0%			
HAI-OS ACID INHIBITOR	Halliburton	Corrosion Inhibitor	Listed Below	Listed Below	0%	0%			
Hydrochloric acid	Halliburton	Solvent	Listed Below	Listed Below	0%	0%			
OPTIFLO-III DELAYED RELEASE BREAKER	Halliburton	Breaker	Listed Below	Listed Below	0%	0%			
OptiKleen-WF	Halliburton	Concentrate	Listed Below	Listed Below	0%	0%			
PROP-CERAMIC	Halliburton	Proppant	Listed Below	Listed Below	0%	0%			
SAND	Halliburton	Proppant	Listed Below	Listed Below	0%	0%			
SP BREAKER	Halliburton	Breaker	Listed Below	Listed Below	0%	0%			
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Listed Below	Listed Below	0%	0%			
FDP-S1176-15	Halliburton	Friction Reducer	Listed Below	Listed Below	0%	0%			
FDP-S1226-15	Halliburton	Surfactant	Listed Below	Listed Below	0%	0%			
MC B-8614	Multi-Chem	Biocide	Listed Below	Listed Below	0%	0%			
DC-229	Performance Chemical Co	Scale Inhibitor	Listed Below	Listed Below	0%	0%			
Pro-Hib 322	Performance Chemical Co	Scale Inhibitor	Listed Below	Listed Below	0%	0%			
MSDS and Non-MSDS Ingredients are listed below					0%	0%			
Ingredients	Listed Above	Listed Above	2,7-Naphthalenedisulfonic acid, 3-hydroxy-4-[[4-sulfor-1-naphthalenyl) azo]-, trisodium salt	915-67-3	0.1%	3E-05%			
			2-Propenoic acid, homopolymer, sodium salt	9003-04-7	25%	0.00338%			
			Alcohols, C12-13, ethoxylated	66455-14-9	30%	0.01837%			
			Alcohols, C12-16, ethoxylated	68551-12-2	5%	0.00306%			
			Alkyl (C12-16) dimethylbenzylammonium	68424-85-1	5%	0.00115%			
			Aluminum Silicate	1302-76-7	100%	3.22207%			
			Ammonium persulfate	7727-54-0	100%	0.00368%			
			Bishexamethylenetriamine penta	35657-77-3	72%	0.01566%			
			Citric acid	77-92-9	60%	0.00207%			
			Crystalline silica, cristobalite	14464-46-1	30%	0.96662%			
			Crystalline silica, quartz	14808-60-7	100%	16.15695%			
			Cured acrylic resin	Proprietary	30%	0.0011%			
			Ethoxylated alcohols	Proprietary	30%	0.0003%			
			Ethylene glycol	107-21-1	30%	0.00816%			
			Fatty acids, tall oil	Proprietary	30%	0.0003%			
			Glutaraldehyde	111-30-8	30%	0.00692%			
			Guar gum	9000-30-0	100%	0.08112%			
			Hydrochloric acid	7647-01-0	15%	0.09719%			
			Hydrotreated light petroleum distillate	64742-47-8	30%	0.01565%			
			Methanol	67-56-1	60%	0.0006%			
			Monoethanolamine borate	26038-87-9	100%	0.0272%			
			Mullite	1302-93-8	100%	3.22207%			
			Olefins	Proprietary	5%	0.00012%			
			Phosphonic Acid (Nitrilo Tris (Methylene)) Tris-	6419-19-8	5%	0.00068%			
			Polyacrylate	Proprietary	30%	0.01565%			
			Propargyl alcohol	107-19-7	10%	0.0001%			
			Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide	68527-49-1	30%	0.0003%			
			Silica, amorphous - fumed	7631-86-9	30%	0.96662%			
			Silica, amorphous precipitated and gel	112926-00-8	32%	0.00696%			
			Sodium perborate tetrahydrate	10486-00-7	100%	0.00368%			
			Sodium persulfate	7775-27-1	100%	0.00335%			
			Sodium sulfate	7757-82-6	0.1%	0%			
			Water	7732-18-5	100%	0.65813%			
			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: <u>Signed Electronically</u>		Printed Name: <u>Skipper Herring</u>		Manager Stimulation Title: <u>Operations</u>		
			Date: <u>7/26/2017</u>						
E-mail Address: <u>sherring@cimarex.com</u>									

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.