

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: 30-025-41179								
		2. Well Name: EAST LUSK 15 FEDERAL COM #003H								
		3. Well Number: 003H								
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:H Lot:H Section:15 Township:19S Range:32E Feet from:2280 N/S Line:N Feet from:330 E/W Line:E								
		5. Bottom Hole Location: Unit:H Lot:H Section:15 Township:19S Range:32E Feet from:2280 N/S Line:N Feet from:330 E/W Line:E								
		6. Latitude: 32.6613573671168 Longitude: - 103.746543288846								
		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: 7/29/2013 Frac Performed by: Halliburton		12. Production Type: O								
13. Pool Code(s): 41442		14. Gross Fractured Interval: 9,462 ft to 9,554 ft								
15. True Vertical Depth (TVD): 9,554 ft		16. Total Volume of Fluid Pumped: 1,731,181 gals								
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	Base fluid	Water	7732-18-5	100%	91.54712%				
Premium White-20/40	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	5.64811%				
CRC Garnet-20/40	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	2.302%				
Losurf-360	Halliburton	Surfactant	Poly(oxy-1,2-ethanediyl), .alpha.-isodecyl-.omega.-hydroxy-	61827-42-7	30%	0.02674%				
BC-140 X2	Halliburton	Initiator	Glycerine	56-81-5	10%	0.00891%				
			Complex alkylamine	Proprietary	5%	0.00446%				
			Ethylene glycol	107-21-1	30%	0.02298%				
BA-40L BUFFERING AGENT	Halliburton	Buffer	Monoethanolamine borate	26038-87-9	100%	0.0766%				
			Potassium carbonate	584-08-7	60%	0.01691%				
BA-20 BUFFERING AGENT	Halliburton	Buffer	Acetic acid	64-19-7	30%	0.00599%				
BE-9	Halliburton	Biocide	Ammonium acetate	631-61-8	100%	0.01996%				
			Tributyl tetradecyl phosphonium chloride	81741-28-8	10%	0.00015%				
LCA-1	Halliburton	Solvent	Paraffinic solvent	Proprietary	100%	0.01389%				
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.18271%				
OPTIFLO-HTE	Halliburton	Breaker	Crystalline silica, quartz	14808-60-7	30%	0.00158%				
SP BREAKER	Halliburton	Breaker	Walnut hulls	Proprietary	100%	0.00528%				
			Sodium persulfate	7775-27-1	100%	0.0005%				
HCL 15%	Petroplex	Acid	Hydrochloric Acid	7647-01-0	15%	0.01653%				
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	Proprietary	10%	2E-05%				
			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%	0.00552%	
			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%	9E-05%	
Ingredients Listed Below This Line Are Part of the						2,7-Naphthalenedisulfonic acid, 3-hydroxy-4-[(4-sulfor-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	Proprietary	0%	0%				
			Enzyme	Proprietary	0%	0%				
			Silica gel	112926-00-8	0%	0%				
			Sodium sulfate	7757-82-6	0%	0%				
			Surfactant mixture	Proprietary	0%	0%				
			Surfactant mixture	Proprietary	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: 8/15/2013

E-mail Address: sherring@cimarex.com

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