

HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment	4. Surface Hole Location: Unit:A Lot:A Section:12 Township:24S Range:32E Feet from:330 N/S Line:N Feet from:810 E/W Line:E
	5. Bottom Hole Location: Unit:A Lot:A Section:12 Township:24S Range:32E Feet from:330 N/S Line:N Feet from:810 E/W Line:E
	6. Latitude: Longitude: 32.2385941255378 - 103.62240091519
	7. County: Lea

8. Operator Name and Address: CIMAREX ENERGY CO. OF COLORADO 600 N. Marinfeld St Suite 600 Miles 33304	9. OGRID: 162683	10. Phone Number: 432-620-1938
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Midland 79701		
11. Last Fracture Date: 11/10/2012 Frac Performed by: Holliburton	12. Production Type:	

11. Last Fracture Date:	11/10/2012	Fracture Enclosed by:	Hambilton	12. Production Type:	0
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13. Pool Code(s):	14. Gross Fractured Interval:
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96674	10,723 ft to 11,086 ft
45. True Vertical Depth (TVD)	46. Total Volume of Fluid Element

15. True Vertical Depth (TVD): 11,086 ft				16. Total Volume of Fluid Pumped: 42,216 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	Cimarex				100%	83.81502%
Premium White-20/40	Halliburton				100%	11.2713%
CRC Garnett-20/40	Halliburton				100%	4.47022%
BE-9	Halliburton	Biocide	Tributyl tetradecyl phosphonium chloride	81741-28-8	10%	0.00195%
FDP-S1041-12	Halliburton	Surfactant	Poly(oxy-1,2-ethanediyl), alpha-isodecyl-omega-hydroxy	61827-42-7	0.3%	0.00248%
			Complex alkylamine		0.05%	0.00041%
BC-140 X2	Halliburton	Initiator	Ethylene glycol	107-21-1	30%	0.02196%
			Monoethanolamine borate	26038-87-9	100%	0.07319%
BA-40L BUFFERING AGENT	Halliburton	Buffer	Potassium carbonate	584-08-7	60%	0.02287%
SP BREAKER	Halliburton	Breaker	Sodium persulfate	7775-27-1	100%	0.00034%
OPTIFLO-HTE	Halliburton	Breaker	Crystalline silica, quartz	14808-60-7	30%	0.00178%
			Walnut hulls	Mixture	100%	0.00593%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.21062%
HCL 15%	Petroplex	Acid	Hydrochloric Acid	7647-01-0	15%	0.01491%
Cronox AK-50	Petroplex	Corrosion Inhibitor	Oxyalkylated Alkylphenol	CBI	30%	5E-05%
			Heavy Aromatic Naptha	64742-94-5	30%	5E-05%
			Isopropanol	67-63-0	30%	5E-05%
			Fatty Acids	CBI	10%	2E-05%
			Complex Alkylaryl Polyo-Ester	CBI	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	CBI	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%	0.00046%
EC9546A	Petroplex	Surfactant	Heavy Aromatic Naptha	64742-94-5	10%	2E-05%
			Isopropanol	67-63-0	60%	0.0001%
			Polyethylene Glycol	25322-68.3	5%	1E-05%
			Napthalene	91-20-3	1%	0%
			Phosphoric Acid Ester	CBI	10%	2E-05%
			Oxyalkylated Alcohol	CBI	10%	2E-05%
			Oxyalkylated Alkyl Alcohol	CBI	10%	2E-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	Confidential Business Information	0%	0%
			Cured Acrylic Resin	Confidential Business Information	0%	0%
			Enzyme	Confidential Business Information	0%	0%
			Oxyalkylated Phenolic Resin	Confidential Business Information	0%	0%
			Oxyalkylated Phenolic Resin	Confidential Business Information	0%	0%
			Silica gel	112926-00-8	0%	0%
			Sodium sulfate	7757-82-6	0%	0%
			Surfactant Mixture	Confidential Business Information	0%	0%
			Surfactant Mixture	Confidential Business Information	0%	0%
			Water	7732-18-5	0%	0%
					0%	0%
					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 Title: Manager Stimulation

Date: 11/13/2012

E-mail Address: sherring@cimarex.com