

HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment	4. Surface Hole Location: Unit: I Lot: I Section: 15 Township: 19S Range: 32E Feet from: 2350 N/S Line: S Feet from: 330 E/W Line: E 5. Bottom Hole Location: Unit: I Lot: I Section: 15 Township: 19S Range: 32E Feet from: 2350 N/S Line: S Feet from: 330 E/W Line: E 6. Latitude: 32.6595077785409 Longitude: 103.74653946809 7. County: Lea
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8. Operator Name and Address: CIMAREX ENERGY CO. OF COLORADO 600 N. Marienfeld St Suite 600 Midland 79701	9. OGRID: 162683	10. Phone Number: 432-620-1938
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Midland 79701		
11. Last Fracture Date:	8/27/2012	12. Production Type:
Frac Performed by:	Halliburton	

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13. Pool Code(s): 41442	14. Gross Fractured Interval: 9.309 ft to 9.554 ft
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15. True Vertical Depth (TVD): 2,551 ft	16. Total Volume of Fluid Pumped: 12,242 bbl
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17. HYDRAULIC FLUID COMPOSITION AND CONCENTRATION:				42,948 DDLS		
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%	83.75035%
SAND - PREMIUM WHITE	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	11.25016%
CRC SAND	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	4.41706%
			Hexamethylenetetramine	100-97-0	2%	0.08834%
			Phenol / formaldehyde resin	9003-35-4	5%	0.22085%
BC-140 X2	Halliburton	Initiator	Ethylene glycol	107-21-1	30%	0.02176%
			Monoethanolamine borate	26038-87-9	100%	0.07254%
BA-40L BUFFERING AGENT	Halliburton	Buffer	Potassium carbonate	584-08-7	60%	0.01478%
SUPERSET W	Halliburton	Activator	Methanol	67-56-1	60%	0.00799%
			Ethoxylated nonylphenol	CBI	60%	0.00799%
BE-9	Halliburton	Biocide	Tributyl tetradecyl phosphonium chloride	81741-28-8	10%	0.00151%
FDP-S1007-11	Halliburton	Surfactant	Citrus, extract	94266-47-4	10%	0.01158%
			Isopropanol	67-63-0	30%	0.03474%
OPTIFLO-HTE	Halliburton	Breaker	Crystalline silica, quartz	14808-60-7	30%	1E-05%
			Walnut hulls	Mixture	100%	4E-05%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.00181%
SP BREAKER	Halliburton	Breaker	Sodium persulfate	7775-27-1	100%	0%
HCL 15%	Petroplex	Acid	Hydrochloric Acid	7647-01-0	15%	0.01465%
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 Poly-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
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%
			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 Manager Stimulation
Date: 9/16/2012 Title: Operations
E-mail Address: sherring@cimarx.com