

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. 30-025-40025				
		2. Well Name: JG STATE #013				
		3. Well Number: 013				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:N Lot:N Section:16 Township:17S Range:32E Feet from:990 N/S Line:S Feet from:2310 E/W Line:W				
		5. Bottom Hole Location: Unit:N Lot:N Section:16 Township:17S Range:32E Feet from:990 N/S Line:S Feet from:2310 E/W Line:W				
		6. Latitude: longitude: 32.8300700967838 - 103.772531905497				
		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: 432-620-1938	
11. Last Fracture Date: 10/30/2012 Frac Performed by: C&J Energy Services				12. Production Type: O		
13. Pool Code(s): 44500				14. Gross Fractured Interval: 5,444 ft to 6,778 ft		
15. True Vertical Depth (TVD): 6,778 ft				16. Total Volume of Fluid Pumped: 67,878 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)
Water	Cimarex	Carrier / Base Fluid	Water	7732-18-5	100%	95.48025%
Sand (Proppant) lbs	CJES	Proppant	Silica Substrate		100%	4.29365%
BR-FR	Economy	Breaker F	Proprietary	Unkown	100%	0.04255%
SU-15	Economy	Surfactant	Methanol	67-56-1	70%	0.06128%
Roc Da 24	Bioguard	Biocide	Sodium Hydroxide	7173-51-5	100%	0.02451%
FR-1	Economy	Friction Reducer	Petroleum Distillate	Proprietary	100%	0.08225%
S-250N	Reef	Scale Inhibitor	Amino Methylene Phosphonic Acid Salt	68649-44-5	25%	0.0005%
			Methanol	67-56-1	25%	0.0005%
HCL 15%	Petroplex	Acid	Hydrochloric Acid	7647-01-0	15%	0.00389%
Cronox AK-50	Petroplex	Corrosion Inhibitor	Oxyalkylated Alkylphenol	CBI	30%	1E-05%
			Heavy Aromatic Naptha	64742-94-5	30%	1E-05%
			Isopropanol	67-63-0	30%	1E-05%
			Fatty Acids	CBI	10%	0%
			Complex Alkylaryl Poly -Ester	CBI	10%	0%
			Tar Bases, Quinoline Derivatives, Benzyl Chloride-Quaternized	72480-70-7	10%	0%
			Formaldehyde	50-00-0	10%	0%
			Acetylenic Alcohol	CBI	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%	0.00012%
EC9546A	Petroplex	Surfactant	Heavy Aromatic Naptha	64742-94-5	10%	0%
			Isopropanol	67-63-0	60%	3E-05%
			Polyethylene Glycol	25322-68.3	5%	0%
			Napthalene	91-20-3	1%	0%
			Phosphoric Acid Ester	CBI	10%	0%
			Oxyalkylated Alcohol	CBI	10%	0%
			Oxyalkylated Alkyl Alcohol	CBI	10%	0%
					0%	0%
					0%	0%
					0%	0%
					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: <u>Signed Electronically</u>		Printed Name: <u>Skipper Herring</u>		Manager Stimulation Title: <u>Operations</u>		
Date: <u>11/13/2012</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.