

|                                                                                                                                                    |                                                                                                                                            |                                                                                                                                      |                                                                                              |                                     |                                                          |                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------------------|----------------------------------------------------------|----------------------------------------------------------|
| Submit within 45 days of well completion                                                                                                           | State of New Mexico<br>Energy, Minerals and Natural Resources<br>Oil Conservation Division<br>1220 S. St Francis Dr.<br>Santa Fe, NM 87505 | Revised February 15, 2012                                                                                                            |                                                                                              |                                     |                                                          |                                                          |
|                                                                                                                                                    |                                                                                                                                            | 1. WELL API NO:<br>30-015-39894                                                                                                      |                                                                                              |                                     |                                                          |                                                          |
|                                                                                                                                                    |                                                                                                                                            | 2. Well Name:<br>IRWIN 23 14 FEDERAL #004                                                                                            |                                                                                              |                                     |                                                          |                                                          |
|                                                                                                                                                    |                                                                                                                                            | 3. Well Number:<br>004                                                                                                               |                                                                                              |                                     |                                                          |                                                          |
| HYDRAULIC FRACTURING FLUID DISCLOSURE<br><br><input checked="" type="checkbox"/> Original<br><br><input type="checkbox"/> Amendment                |                                                                                                                                            | 4. Surface Hole Location:<br>Unit:A Lot:A Section:23 Township:19S Range:30E<br>Feet from:1300 N/S Line:N<br>Feet from:785 E/W Line:E |                                                                                              |                                     |                                                          |                                                          |
|                                                                                                                                                    |                                                                                                                                            | 5. Bottom Hole Location:<br>Unit:A Lot:A Section:23 Township:19S Range:30E<br>Feet from:1300 N/S Line:N<br>Feet from:785 E/W Line:E  |                                                                                              |                                     |                                                          |                                                          |
|                                                                                                                                                    |                                                                                                                                            | 6. Latitude: 32.649520846223 longitude: - 103.936741334071                                                                           |                                                                                              |                                     |                                                          |                                                          |
|                                                                                                                                                    |                                                                                                                                            | 7. County:<br>Eddy                                                                                                                   |                                                                                              |                                     |                                                          |                                                          |
| 8. Operator Name and Address:<br>CIMAREX ENERGY CO. OF COLORADO<br>600 N. Marienfeld St<br>Suite 600<br>Midland 79701                              |                                                                                                                                            | 9. OGRID:<br>162683                                                                                                                  |                                                                                              | 10. Phone Number:<br>918-295-1763   |                                                          |                                                          |
| 11. Last Fracture Date: 4/25/2013 Frac Performed by: Halliburton                                                                                   |                                                                                                                                            | 12. Production Type:<br>O                                                                                                            |                                                                                              |                                     |                                                          |                                                          |
| 13. Pool Code(s):<br>5200                                                                                                                          |                                                                                                                                            | 14. Gross Fractured Interval:<br>8,467 ft to 8,574 ft                                                                                |                                                                                              |                                     |                                                          |                                                          |
| 15. True Vertical Depth (TVD):<br>8,574 ft                                                                                                         |                                                                                                                                            | 16. Total Volume of Fluid Pumped:<br>34,083 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                                                                                                                                        | Operator                                                                                                                                   |                                                                                                                                      |                                                                                              |                                     | 100%                                                     | 84.06693%                                                |
| Losurf 360W                                                                                                                                        | Halliburton                                                                                                                                | Surfactant                                                                                                                           | Poly(oxy-1,2-ethanediyl), alpha.-isodecyl-.omega.-hydroxy-                                   | 61827-42-7                          | 30%                                                      | 0.02295%                                                 |
|                                                                                                                                                    |                                                                                                                                            |                                                                                                                                      | Glycerine                                                                                    | 56-81-5                             | 10%                                                      | 0.00765%                                                 |
|                                                                                                                                                    |                                                                                                                                            |                                                                                                                                      | Complex alkylamine                                                                           |                                     | 5%                                                       | 0.00382%                                                 |
|                                                                                                                                                    |                                                                                                                                            |                                                                                                                                      |                                                                                              |                                     |                                                          |                                                          |
| Premium White-20/40                                                                                                                                | Halliburton                                                                                                                                |                                                                                                                                      |                                                                                              |                                     | 100%                                                     | 10.63749%                                                |
| Garnett CRC-20/40                                                                                                                                  | Halliburton                                                                                                                                |                                                                                                                                      |                                                                                              |                                     | 100%                                                     | 4.88983%                                                 |
| BC-140 X2                                                                                                                                          | Halliburton                                                                                                                                | Initiator                                                                                                                            | Ethylene glycol                                                                              | 107-21-1                            | 30%                                                      | 0.01761%                                                 |
|                                                                                                                                                    |                                                                                                                                            |                                                                                                                                      | Monoethanolamine borate                                                                      | 26038-87-9                          | 100%                                                     | 0.0587%                                                  |
| BA-40L BUFFERING AGENT                                                                                                                             | Halliburton                                                                                                                                | Buffer                                                                                                                               | Potassium carbonate                                                                          | 584-08-7                            | 60%                                                      | 0.0069%                                                  |
| WG-36 GELLING AGENT                                                                                                                                | Halliburton                                                                                                                                | Gelling Agent                                                                                                                        | Guar gum                                                                                     | 9000-30-0                           | 100%                                                     | 0.17238%                                                 |
| OPTIFLO-HTE                                                                                                                                        | Halliburton                                                                                                                                | Breaker                                                                                                                              | Crystalline silica, quartz                                                                   | 14808-60-7                          | 30%                                                      | 0.00163%                                                 |
|                                                                                                                                                    |                                                                                                                                            |                                                                                                                                      | Walnut hulls                                                                                 | Mixture                             | 100%                                                     | 0.00542%                                                 |
| SP BREAKER                                                                                                                                         | Halliburton                                                                                                                                | Breaker                                                                                                                              | Sodium persulfate                                                                            | 7775-27-1                           | 100%                                                     | 0.00066%                                                 |
| HCL 15%                                                                                                                                            | Petroplex                                                                                                                                  | Acid                                                                                                                                 | Hydrochloric Acid                                                                            | 7647-01-0                           | 15%                                                      | 0.01607%                                                 |
| Cronox AK-50                                                                                                                                       | Petroplex                                                                                                                                  | Corrosion Inhibitor                                                                                                                  | Oxyalkylated Alkylphenol                                                                     | CBI                                 | 30%                                                      | 6E-05%                                                   |
|                                                                                                                                                    |                                                                                                                                            |                                                                                                                                      | Heavy Aromatic Naptha                                                                        | 64742-94-5                          | 30%                                                      | 6E-05%                                                   |
|                                                                                                                                                    |                                                                                                                                            |                                                                                                                                      | Isopropanol                                                                                  | 67-63-0                             | 30%                                                      | 6E-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                                                                                  | 77-92-9                             | 100%                                                     | 0.0005%                                                  |
|                                                                                                                                                    |                                                                                                                                            |                                                                                                                                      | EC9546A                                                                                      | Petroplex                           | Surfactant                                               | Heavy Aromatic Naptha                                    |
| CIO2                                                                                                                                               | Bosque                                                                                                                                     | Biocide                                                                                                                              | Isopropanol                                                                                  | 67-63-0                             | 60%                                                      | 0.00011%                                                 |
|                                                                                                                                                    |                                                                                                                                            |                                                                                                                                      | 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%                                                   |
|                                                                                                                                                    |                                                                                                                                            |                                                                                                                                      | Chlorine Dioxide                                                                             | 10049-04-4                          | 100%                                                     | 0.00013%                                                 |
|                                                                                                                                                    |                                                                                                                                            |                                                                                                                                      | 2,7-Napthalenedisulfonic 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                                                                          | Mixture                             | 0%                                                       | 0%                                                       |
| Cured Acrylic Resin                                                                                                                                | 9002-98-6                                                                                                                                  | 0%                                                                                                                                   | 0%                                                                                           |                                     |                                                          |                                                          |
| Enzyme                                                                                                                                             | 9025-56-3                                                                                                                                  | 0%                                                                                                                                   | 0%                                                                                           |                                     |                                                          |                                                          |
| Silica gel                                                                                                                                         | 112926-00-8                                                                                                                                | 0%                                                                                                                                   | 0%                                                                                           |                                     |                                                          |                                                          |
| Sodium sulfate                                                                                                                                     | 7757-82-6                                                                                                                                  | 0%                                                                                                                                   | 0%                                                                                           |                                     |                                                          |                                                          |
| Surfactant Mixture                                                                                                                                 | 67254-71-1                                                                                                                                 | 0%                                                                                                                                   | 0%                                                                                           |                                     |                                                          |                                                          |
| Surfactant Mixture                                                                                                                                 | 56449-46-8                                                                                                                                 | 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                 |                                                          |                                                          |
| Date: 5/22/2013                                                                                                                                    |                                                                                                                                            |                                                                                                                                      |                                                                                              | Title: Operations                   |                                                          |                                                          |
| E-mail Address: sherring@cimarex.com                                                                                                               |                                                                                                                                            |                                                                                                                                      |                                                                                              |                                     |                                                          |                                                          |

NMOCDD does not require the reporting of information beyond MSDS data as described in 29 CFR 1910.1200. NMOCDD does not require the reporting or disclosure of proprietary, trade secret or confidential business information.