



COTERRA

**COTERRA ENERGY INC.
OPERATIONS MONITORING PLAN:
SMITH, R. PAD 4**

August 26, 2025

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1.0 BACKGROUND AND PLANNED DEVELOPMENT

Coterra Energy Inc. (“Coterra”) and the Pennsylvania Department of Environmental Protection (the “Department”) entered into a Consent Order and Agreement on November 29th, 2022 (the “COA”). Section 4 of the COA imposes certain plugging and monitoring obligations for any new wells that will traverse under the Dimock/Carter Road Area, as defined in the COA, from surface hole locations outside the Dimock/Carter Road Area.

Coterra will submit new unconventional well permits for four (4) wells on the Smith, R. Pad 4 (the “Smith Pad”) that will traverse under the Dimock/Carter Road Area through the southwest corner of its boundary. The Smith Pad is located at 12607 Strickland Hill Road Springville, PA 18844. (41.697861, -75.910605) in Susquehanna County. The API numbers are not yet available as the permit applications have not yet been submitted to the Department, but the new well names are below:

- SMITH R 23
- SMITH R 29
- SMITH R 31
- SMITH R 33

There are no plugged or existing unconventional wells identified on Exhibit G of the COA located within 2,000 feet measured horizontally from any of the new Smith vertical wellbores or within 2,000 feet measured from the surface above the entire length of the new Smith horizontal wellbores.

2.0 OPERATIONS MONITORING PLAN

Pursuant to Section 4.c of the COA, Coterra shall:

- utilize isolation mechanisms and continuous monitoring in real-time by Coterra’s 24-hour Operations Control Center (“Gas Control”) for gas wells identified on Exhibit G of the COA in the Dimock/Carter Road Area within 2,000 feet measured horizontally from the vertical wellbore and 2,000 feet measured from the surface above the entire length of the new Coterra horizontal wellbore – **this is not applicable for the Smith Pad wells, as no Exhibit G gas wells meet the distance criteria;**
- monitor all drinking water wells within 3,000 feet of Coterra’s surface location for the new wellbore, subject to landowner consent, by conducting pre-drill and post-completion water sampling for dissolved methane;
- plug and abandon the wells identified on Exhibit G of the COA drilled by Cabot within 1,000 feet measured horizontally from the vertical well bore and 1,000 feet measured from the surface above the entire length of the new Coterra horizontal wellbore in accordance with Paragraph 4.b of the COA – **this is not applicable for the Smith Pad wells, as no Exhibit G gas wells meet the distance criteria;** and
- report monitoring results to the Department.

2.1 Monitored Gas Wells

Due to the location of the Smith Pad development, there are no monitored gas wells to evaluate, nor are there any monitoring plans required. However, in accordance with best management practices, Coterra will follow the Department’s “Guidelines for Implementing Area of Review (“AOR”) Regulatory Requirements for Unconventional Wells 800-0810-001” (“AOR Guidelines”) for monitoring any additional existing gas wells within 2000 feet of the Smith R Pad.

2.2 Monitoring Drinking Water Wells

COA Section 4.c.ii outlines Coterra’s obligations regarding monitoring of drinking water wells within 3,000 feet of the surface locations of each new wellbore. Beyond the requirements specified in the COA, Coterra has elected to conduct multiple rounds of pre-drill sampling, subject to landowner consent, at all drinking water supplies within a 3,000-foot radius of the surface locations of the new Smith Pad wellbores and analyze each sample for Coterra’s full, standard pre-drill suite of parameters (see minimum parameter list in Table 2.2 below for reference). In addition, pursuant to COA Section 4.c.ii., Coterra will collect dissolved methane samples from each drinking water supply within the 3,000-foot radius of the surface locations of the Smith Pad wellbores post-completion. All results will be shared with the Department pursuant to Paragraph 4.c.iv of the COA.

| Table 2.2 - Pre-Drill Sampling Analyte List | | |
|--|--------------------------|------------------------------------|
| Dissolved Gases | VOCs | Wet Chemistry/Miscellaneous |
| Ethane | Benzene | Oil & Grease |
| Isobutane | n-Butylbenzene | Alkalinity (as CaCO3) |
| Methane | sec Butylbenzene | Bromide |
| n_butane | Ethylbenzene | Chloride |
| Propane | Isopropyl Benzene | Ethylene Glycol |
| Metals | p-Isopropyltoluene | Hardness |
| Aluminum | Naphthalene | MBAS |
| Arsenic | n-Propylbenzene | Total Nitrite/Nitrate Nitrogen |
| Barium | Toluene | Sulfate |
| Cadmium | Xylenes (Total) | Sulfide |
| Calcium | 1, 2, 4 Trimethylbenzene | TDS |
| Chromium | 1, 3, 5 Trimethylbenzene | TSS |
| Iron | Field Parameters | Turbidity |
| Lead | Conductivity | |
| Lithium | Dissolved Oxygen | |
| Magnesium | ORP | |
| Manganese | pH | |
| Potassium | | |
| Selenium | | |
| Sodium | | |
| Strontium | | |
| Vanadium | | |
| Zinc | | |

2.3 Plugging of COA Exhibit G Wells Associated with the Smith Pad

Section 4.b of the COA imposes plugging obligations for existing gas wells listed in Exhibit G of the COA. There are no wells identified in Exhibit G that will be plugged in connection with development of the Smith Pad wells, as outlined in Section 4.c.iii of the COA.

2.4 Reporting Monitoring Results to the Department

Coterra will report monitoring results in connection with this plan to the Department in accordance with its obligations in Section 4.c.iv of the COA.

There will be no required monitoring data from gas wells due to the proximity of the new development to Exhibit G wells. If any AOR thresholds are exceeded, Coterra will follow the recommendations specified in the AOR Guidelines.

Regarding drinking water supply monitoring results, copies of all analytical data packages will be provided to the Department following receipt of the final reports from the respective laboratories.