# Orphaned Wells Methane Measurement Method Approval Form

Instructions Project Proponents shall submit this Methane Measurement Method Approval Form to ACR for approval. The form shall be submitted during GHG Project Plan preparation (after project listing) and approved prior to collection of pre-plugging methane measurements. Completed forms and any supplemental documents shall be saved as a PDF and uploaded to the ACR Registry. ACR will assess this information for consistency with the intent of the methodology and principles of accuracy and conservativeness, but approval of the form does not guarantee a successful verification or the issuance of carbon credits. ACR will make the approved form public on the ACR Registry.

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| Section I: GHG Project INFORMATION | | | | |
| 1 | Document date | Click or tap to enter a date. | | |
| 2 | Project title |  | | |
| 3 | ACR project ID |  | | |
| 4 | Project Proponent |  | | |
| Section II: Description of involved Entities and Individuals | | | | |
| 1 | Entity names and roles  Include all entities named in Listing Form and any additional parties specific to methane measurement. |  | | |
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| 2 | Qualified Emissions Measurement Specialist(s) (QEMS)  Name the individual, affiliation, and qualifications for specific measurement methods and equipment. If qualified by training, provide training certificate or other documented evidence of completion. |  | | |
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| Section III: PRE-PLUGGING MEASUREMENT METHODS | | | | |
| 1 | Describe the equipment and method(s) used to identify a well as leaking methane.  Identify equipment manufacturer(s) and model(s). Identify detection ranges and measurement accuracy as specified in equipment manuals. Note manufacturer’s calibration and inspection requirements (including intervals) and confirm adherence to requirements. Please supply equipment manual(s). |  | | |
| 2 | Describe the equipment proposed for use in pre‑plugging sampling events, including ambient methane (if required).  Identify equipment manufacturer(s) and model(s). Identify detection ranges and measurement accuracy as specified in equipment manuals. Note manufacturer’s calibration and inspection requirements (including intervals) and confirm adherence to requirements. Please supply equipment manual(s). |  | | |
| 3 | Describe the methods proposed for pre‑plugging sampling events, including ambient methane (if required).  Include a description of the physical setup, including the placement of measurement equipment in relation to the wellhead, if present, and any liquid separator. Please attach a detailed diagram including all equipment proposed. |  | | |
| 4 | Will gas chromatography be utilized in lieu of field measurements of methane concentration? | | | Yes  No |
| 5 | If III.4 is Yes, specify the sampling method and testing standard to be employed. | | N/A | |
| 6 | If III.4 is Yes, will gas samples be taken directly from the well gas flow during or immediately after each pre-plugging sampling event? | | | Yes  No  N/A |
| 7 | Will well methane concentration be measured on a wet or dry basis? | | | Wet  Dry |
| 8 | Will well gas flow be measured on a wet or dry basis? | | | Wet  Dry |
| 9 | If responses to questions III.7 and III.8 are not the same, describe how moisture content of the methane will be determined (volumetric basis, cubic feet water per cubic feet emitted gas). | | N/A | |
| 10 | Is the wellhead present? | | Yes  No   Both scenarios at project wells | |
| 11 | Will the well gas flow rate, methane concentration, and flowing pressure (if wellhead present) be measured simultaneously during pre‑plugging sampling events, as described in the Methodology and Errata and Clarifications? | | | Yes  No |
| 12 | Will data recordings for well gas flow rate, methane concentration, and flowing pressure (as applicable) be recorded at ≤ 10-minute intervals during pre-plugging sampling events? | | | Yes  No |
| 13 | Will each pre-plugging sampling event last two hours or longer as needed to demonstrate stability as described in the Methodology and Errata and Clarifications? | | | Yes  No |
| 14 | Will the same equipment be used for both pre-plugging sampling events? | | | Yes  No |
| 15 | Are the methods proposed above deemed appropriate and safe based on equipment specifications and field and well conditions? | | | Yes  No |
| 16 | If any response to questions III.11 through III.15 is No, provide further explanation. | N/A | | |
| 17 | Describe how data will be recorded during pre‑plugging sampling events.  Specify the equipment involved, units of measurement, whether equipment provides internal corrects to standard temperature and pressure (STP) and, if so, reference STP of equipment, and capabilities to be deployed to identify dates, times, and locations. |  | | |
| **Section IV: POST-PLUGGING MONITORING METHODS** | | | | |
| 1 | Describe the equipment proposed for post‑plugging monitoring, including ambient methane, screening and, if initial screen deems necessary, measurement.  Identify equipment manufacturer(s) and model(s). Identify detection ranges and measurement accuracy as specified in equipment manuals. Note manufacturer’s calibration and inspection requirements (including intervals) and confirm adherence to requirements. Please supply equipment manual(s). |  | | |
| 2 | Describe the methods proposed for post‑plugging monitoring, including ambient methane, screening and, if initial screen deems necessary, measurement.  Include a description of the physical setup, including the placement of measurement equipment in relation to the wellhead and cap. Please attach a detailed diagram including all equipment proposed. |  | | |
| 3 | Will the well be buried at the time of post-plugging measurement? | | | Yes  No |
| 4 | Will post-plugging screening last 5 minutes or longer at each area requiring screening as described in the Methodology and Errata and Clarifications? | | | Yes  No |
| 5 | Describe how data will be recorded during post‑plugging monitoring.  Specify the equipment involved, units of measurement, whether equipment provides internal corrects to standard temperature and pressure (STP) and, if so, reference STP of equipment, and capabilities to be deployed to identify dates, times, and locations. |  | | |

**For Staff Use Only**

**ACR Decision**