

MINE METHANE CAPTURE OFFSET PROJECT DATA REPORT FOR ABANDONED UNDERGROUND MINES				
OPR Staff Use Only	Date Report Received:	OPR Tracking Number:	Date Report Reviewed:	OPR Staff Use Only
PART I. ENTITY SUBMITTING REPORT				
Is this report being submitted by the Offset Project Operator (OPO) or by the Authorized Project Designee (APD)?				<input checked="" type="checkbox"/> OPO <input type="checkbox"/> APD
Note: The person completing this form should be an OPO/APD employee.				
Report Version Number:	Date Report Completed:		Date Report Submitted:	
3	21-Mar-2023		21-Mar-2023	
Person Completing Report:	Phone Number:	Email Address:		
Morgan Pate	423-276-1116	MPate@keyrockenergy.com		
PART II. OFFSET PROJECT INFORMATION				
Offset Project Name:		OPR Project ID#:	ARB Project ID# (if known):	
Willow Lake Abandoned Mine Methane Recovery Project		ACR644	CAMM5644	
Reporting Period Start Date:	Reporting Period End Date:		Offset Project Commencement Date:	
01-Dec-2021	30-Nov-2022		16-March-2021	
PART III. OPO/APD/TC INFORMATION				
Part III.A OPO				
OPO Name:			OPO's CITSS ID#:	
Keyrock Environment LLC			CA 3012	
Mailing Address:	City:	State:	Zip:	
P.O. Box 2223	Johnson City	TN	37605	
Physical Address (if different):	City:	State:	Zip:	
207 E. Main Street, Suite 2-D	Johnson City	TN	37604	
Contact Person:	Phone Number:	Email Address:		
Morgan Pate	423-276-1116	MPate@keyrockenergy.com		
Part III.B APD (if applicable)			<input checked="" type="checkbox"/> No APD/Not Applicable	
Part III.C.1 Technical Consultant #1 (if applicable)			<input checked="" type="checkbox"/> No Technical Consultants	

Part IV. QUESTIONS		
1. How many abandoned mines are included in this offset project? <i>Please identify each of the abandoned mines immediately below according to its Mine Safety and Health Administration (MSHA) identification number. If there are more than four mines, either expand the section or provide the required information on separate attached paper.</i>		Number Mines: 2
MSHA ID# for Mine 1: 1103054	MSHA ID# for Mine 2: 1103156	
2. Has the offset project met all local, state, and federal regulatory requirements during the Reporting Period for Mine 1, except for any period being excluded pursuant to section 95973(b)(1)? <i>(If "no," an explanation of the non-compliance must be provided.)</i> <i>Indicate any excluded time periods below:</i>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Has the offset project met all local, state, and federal regulatory requirements during the Reporting Period for Mine 2, except for any period being excluded pursuant to section 95973(b)(1)? <i>(If "no," an explanation of the non-compliance must be provided.)</i> <i>Indicate any excluded time periods below:</i>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3. Is all the information in the offset project listing still accurate? <i>If "yes," skip to Part V.</i>		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
a. Does Part II above report an updated Offset Project Commencement Date, Reporting Period Start Date, and/or Reporting Period End Date? <ul style="list-style-type: none"> Reporting Period End Date: 30-Nov-2021 Reporting Period End Date indicated on the listing: 15-March-2023 		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
b. Does Part III above report updated OPO/APD Information?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
c. Does Part III above report updated Technical Consultant Information?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
d. Are there any other updates about Others Involved in Project, aside from the Technical Consultants, to report? <i>(If "yes," provide those updates on separate attached paper.)</i>		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
e. Are there any updates about the Offset Project Location to report? <ul style="list-style-type: none"> Correct mine basin: Illinois Project listing reported the mine basin as: Springfield Correct city: Equality Project listing reported the city as: El Dorado Correct longitude of mine site: -88.388914 Project listing reported the longitude as: -83.388914 		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
f. Does Part V below report updated information about Mining Methods Employed?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
g. Are there any updates about the Mine Information, aside from Mining Methods Employed and Mineral Production, to report? <ul style="list-style-type: none"> An additional mine was added to the project: Wildcat Hills (MSHA ID: 1103156) The project listing did not include: Wildcat Hills Mine 		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
h. Does any other information in the project listing need to be updated? <ul style="list-style-type: none"> Crediting Period End Date: 30-Nov-2030 Crediting Period End Date indicated on the listing: 15-March-2032 		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
PART V. MINE INFORMATION		
Mining Method(s) Employed at Mine 1 while Active (e.g., longwall or room and pillar): Modified Room and Pillar		
Mining Method(s) Employed at Mine 2 while Active (e.g., longwall or room and pillar): Modified Room and Pillar		
Mineral Production during Reporting Period (including both mineral produced and quantity with units of measurement): N/A		
PART VI. REPORTED GHG EMISSION REDUCTION CALCULATIONS		
How many qualifying and non-qualifying destruction devices were used in this reporting period? <i>Note: If there are more than two (2) destruction devices, either expand this section to report information for those destruction devices or submit the required reporting information for those</i>	Number Non-Qualifying Devices: 0	Number Qualifying Devices: 1

devices on separate, attached paper.							
How many methane sources were used in this reporting period? <i>Note: If there are more than three (3) methane sources associated with any destruction device, either expand this section to report information for those methane sources or submit the required reporting information for those sources on separate, attached paper.</i>							Number Sources: <div style="border: 1px solid black; padding: 2px; text-align: center;">1</div>
Emission Reductions (ER): 73,501 MT CO ₂ e							
Optional: For the baseline emission calculation, what are the methane emissions derived from the hyperbolic emission rate decline curve (i.e., AMM_{DC})?						AMM_{DC}: 4,330 MT CH ₄	
Part VI.D.1 Baseline Values for First Destruction Device							
Is this a qualifying or non-qualifying destruction device?						<input checked="" type="checkbox"/> Qualifying <input type="checkbox"/> Non-Qualifying	
Source	Baseline C_{CH4}	PSW_{B,i}	PIB_{B,i}	PGW_{B,i}	NSW_{B,i}		
1.	0	0	0	0	0		
Part VI.D.2 Baseline Values for Second Destruction Device <input checked="" type="checkbox"/> Not Applicable (Only One Destruction Device)							
Part VI.D.3 Project Values for First Destruction Device							
Source	Project C_{CH4}	PSW_{P,i}	PIB_{P,i}	PGW_{P,i}	NSW_{P,i}		
1.	85%	0	0	0	255,644,983		
Part VI.D.4 Project Values for Second Destruction Device <input checked="" type="checkbox"/> Not Applicable (Only One Destruction Device)							
Part VI.D.5 Other Values							
CON_{SELEC}: N/A		CON_{HEAT}: N/A		CON_{FF}: N/A 8159 Gallons (Distillate #2)			
CE_{FLEC}: N/A		CE_{FHEAT}: N/A		CE_{FF}: 5.593 (kg CO ₂ /gallon) Propane 10.206 (kg CO ₂ /gallon) Distillate #2			
<input checked="" type="checkbox"/> N/A	Site-specific Methane Destruction Efficiency for First Device:	Description of Process:			Third Parties Involved:		
Part VII. ATTESTATION AND OPO SIGNATURE							
I certify under penalty of perjury under the laws of the State of California the GHG reductions and/or GHG removal enhancements for							
 Initial	Project Name:			Reporting Period Start Date:		Reporting Period End Date:	
	Willow Lake Abandoned Mine Methane Recovery Project			01-Dec-2021		30-Nov-2022	
	are measured in accordance with the Compliance Offset Protocol Mine Methane Capture Projects, April 25, 2014, and all information required to be submitted to ARB is true, accurate, and complete.			from		to	
In signing this form, I certify under penalty of perjury of the laws of California that the information contained in this form is true, accurate, and complete. I further certify that I am an Account Representative of the Offset Project Operator (OPO).							
SIGNATURE: 				PRINTED NAME: Morgan Pate			
TITLE: Senior Geologist				DATE: 21-MARCH-2023			

Background for Mine Methane Capture Offset Project Data Report for Abandoned Underground Mines

Section 95976(d) of the Cap-and-Trade Regulation specifies reporting requirements for offset projects participating in the Compliance Offset Program. Offset Project Operators (OPO) or Authorized Project Designees (APD) are required to submit an Offset Project Data Report (OPDR) within four months of the end of each (annual) Reporting Period. This form is designed to help OPOs and APDs provide the information required for offset projects using Compliance Offset Protocol Mine Methane Capture Projects, April 25, 2014. This form is submitted to the approved Offset Project Registry that is listing the offset project and should also be provided to the ARB-accredited verification body that will be verifying the Offset Project Data Report.

Where to Submit Information Contained in This Form

Please complete the information on the form using your computer. Then either add an electronic signature to the form or print, sign, and scan the form. The completed and signed information and all supporting documentation should be submitted to the appropriate Offset Project Registry.

This form is also available from the ARB website at:

<http://www.arb.ca.gov/cc/capandtrade/offsets/forms/forms.htm>

Detailed Instructions for Mine Methane Capture Offset Project Data Report for Abandoned Underground Mines

This form is protected with restricted editing to facilitate completing the form. If the reporting OPO or APD wishes to unprotect the form, the password is "form".

Part I. Entity Submitting Report:

- Indicate whether the Offset Project Operator (OPO) or Authorized Project Designee (APD) is submitting the Offset Project Data Report (OPDR).
- Regulatory amendment in section 95976(d)(10) requires that each version of the OPDR specifies the version number and the date submitted. Moreover, the protocol requires that each OPDR include the date of completion. Please include the OPDR version number, the date of OPDR completion, and the date of OPDR submission to the Offset Project Registry.
- The person submitting the information should indicate the date the form is completed.
- List the name, phone, and email address of the person submitting the information. This person should be an employee of the OPO or APD. The person submitting the information need not be the contact person listed for the OPO or APD in Part III and also need not be the OPO's CITSS account representative signing the OPDR in Part VII.

Part II. Offset Project Information:

- Provide the name for the offset project and its Offset Project Registry ID number, as provided by the Offset Project Registry listing the project. Also include the ARB project ID number, if known.
- (For active underground mines, specify whether the project type includes either or both of the ventilation air methane and mine methane drainage types. Check the appropriate box(es).)
- Indicate the Offset Project Commencement Date and the start and end date of the Reporting Period covered in this Offset Project Data Report.

Part III. OPO/APD/TC Information:

- Enter contact information for the Offset Project Operator (OPO) and Authorized Project Designee (APD) for the offset project. Every project will have an OPO. If a project does not have an APD, please mark the box indicating the project does not have an APD and leave the remaining fields blank.
- For both the OPO and, if applicable, the APD, enter the entity's name, its CITSS ID number, its mailing address, its physical address (if different than mailing address), and the name, phone number, and e-mail address of a contact person for the entity. The CITSS ID is six characters in length, with two letters followed by four numbers (e.g., "CA1234"). **DO NOT PROVIDE THE OPO's or APD's CONFIDENTIAL CITSS ACCOUNT NUMBER**, which begins with the CITSS ID number followed by a hyphen and more numbers.
- Provide the same information for any technical consultants to the OPO or APD for this project. Provide the entity's name, its mailing address, its physical address (if different than mailing address), and the name, phone number, and e-mail address of a contact person for the entity.

- If there are no technical consultants or just one technical consultant, the appropriate check boxes may be marked to indicate that required information is not being omitted. If there are more than two technical consultants, either expand this section of the OPDR or provide the required information on separate, attached paper.

Part IV. Questions:

- Indicate the number of abandoned mines included in this project. This question is because the protocol requires for abandoned underground mine methane recovery activities that some reporting information be provided separately for each mine.
- Identify each of the mines included in the project by their Mine Safety and Health Administration (MSHA) identification number. If there are more than four mines, this section should be expanded, or the identification of the mines should be provided on separate, attached paper.
- This part also includes two questions required in Compliance Offset Protocol Mine Methane Projects, April 25, 2014.
- First, the OPO or APD must respond whether the offset project has met all local, state, and federal regulatory requirements during the Reporting Period. Local regulatory requirements include those by any air quality, water quality, zoning, or other agency with jurisdiction over any aspect of the offset project. (For abandoned underground mine methane recovery activities, the OPO or APD must respond about regulatory requirements separately for each mine involved in the project. If there are more than four mines, this section should be expanded, or the response about meeting regulatory requirements for the additional mines should be provided on separate, attached paper.)
- Regulatory amendments in section 95973(b)(1), effective October 1, 2017, allow an OPO or APD to effectively exclude a time period during which a project is out of regulatory compliance and receive ARB or registry offset credits for the remainder of the reporting period. If an OPO or APD is excluding some dates, the OPO or APD should provide the excluded dates.
- Second, the OPO or APD must answer whether information submitted in the offset project listing remains accurate. If the listing information remains accurate, skip to Part V. For information which is no longer accurate, answer questions 3a through 3h to indicate which portions of the listing information is being updated in this report.

Part V. Mine Information:

- Specify the mining method(s) (e.g., longwall, room and pillar, or open-pit) employed during reporting period. (For abandoned underground mine methane recovery activities, specify the mining method(s) employed for each mine while it was active. If there are more than four mines, this section should be expanded, or the information about mining methods for the additional mines should be provided on separate, attached paper.)
- Report the Mineral Production during the Reporting Period. Include both the mineral(s) produced and the amount produced of each mineral (specifying the units).

Part VI. Reported GHG Emission Reduction Calculations:

- For the Reporting Period covered in this Offset Project Data Report, enter the offset project's baseline emissions, its project emissions, and its total GHG reductions. Emissions should be reported in metric tons of CO₂e.
- Similarly, specify the number of methane sources used in this reporting period. If there are more than three sources, required reporting information for the additional sources should be provided by either expanding the section or by providing the information on separate, attached paper.
- Provide the total emission reductions in metric tons CO₂e.
- **Optional:** Please provide the methane emissions derived from the hyperbolic emission rate decline curve (i.e., AMM_{DC}).
- Within the first two subsections of this part, provide the required *baseline* parameters. Within the next two subsections, provide the required *project* parameters. For descriptions of each variable, please see the Compliance Offset Protocol Mine Methane Capture Projects, April 25, 2014, including subchapter 7.2 (beginning on page 129) for reporting requirements. Please report the volume of mine gas in standard cubic feet (scf).
- For the volume of mine gas calculations (including PSW, PIB, PGW, and NSW), it may be appropriate to report values for only some calculations. As appropriate, fields for the other terms may be left blank.
- If there is only one destruction device, you may check the "not applicable" boxes for the second destruction device indicating these subparts of the MMC OPDR form are being purposely left blank.
- Within the fifth and final subsection of this part, provide the other required reporting information.
- If site-specific methane destruction deficiency is used for any destruction device, provide the destruction efficiency, a description of the process of establishing the methane destruction efficiency,

**Submit the information in this form to
the appropriate Offset Project Registry**

and the identity of any third parties involved. If a site-specific methane destruction deficiency is not used, the "N/A" box may be checked to indicate are being purposely left blank.

Part VII. Attestation and OPO Signature:

- Section 95975(d)(5) of the Cap-and-Trade Regulation requires an attestation for Offset Project Data Reports. The person signing the form should initial each attestation (no typed or printed initials).
- The attestation requires the applicant to provide some information to complete the statement. The project name should match the name entered in Part II. The dates covering the project Reporting Period must also be provided. Please note that the dates provided in the attestation should be the same dates provided in Part II.
- Amendments adopted in April 2014 to section 95976(d)(6) require the attestation "be provided to an Offset Project Registry with the Offset Project Data Report if the offset project is listed with an Offset Project Registry."
- The individual signing the document must be registered in CITSS as the OPO's Primary Account Representative or Alternate Account Representative. The individual signing the document may be an APD employee and/or representative; but to sign the document, the individual must be an Account Representative on the OPO's CITSS account.
- Please provide the individual's signature, printed name, corporate title, and date signed.