

DOCKETED

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Project Title:	Compliance - Application for Certification of DWR Bottlerock Geothermal Project
TN #:	270827
Document Title:	2025 Bottlerock CEC Annual Compliance Report Appendix 2
Description:	2025 Bottlerock CEC Annual Compliance Report Appendix 2
Filer:	John C Casteel
Organization:	Mayacma Geothermal LLC
Submitter Role:	Applicant
Submission Date:	6/18/2026 2:07:01 PM
Docketed Date:	6/18/2026



2025 CEC INTERIM CONDITIONS OF COMPLIANCE REPORT
MAYACMA GEOTHERMAL LLC

Appendix 2

***Current Year LCAQMD Authorities to Construct and
Permits to Operate***

GAMP Participation – Proof of Payment



PERMIT TO OPERATE

Lake County Air Quality Management District

2617 S. Main Street, Lakeport, CA 95453 (707) 263-7000, Fax (707) 263-0421

Permit # P/O 2010-09

By: Douglas G. Gearhart
Douglas G. Gearhart, APCO

Type of Issuance: Renewal

Issuance Date: 10/31/2025

Valid through: 10/31/2026

Category: VIIb

Operations under this permit must be conducted in compliance with all specifications and data included with the application under which this permit was issued. Equipment must be properly maintained and kept in good condition at all times. Post this permit or a facsimile (with conditions) in a conspicuous location on or near the equipment.

Contact: Ms. Susan Petty
Owner: Bottle Rock Power, LLC
Mailing: c/o AltaRock Energy, Inc.
Address: P.O. Box 31205
Seattle, WA 98103-8099

Facility: Bottle Rock Power Plant
Location: 7557 High Valley Rd., Cobb, CA.
Sec 5, T11N, R8W, MDB&M Lake County
Francisco/Coleman Leasehold

Name and Equipment Description: Bottle Rock Power Plant

One (1) fifty-five (55) megawatt geothermal power plant with abatement equipment installed and operated as described in conditions attached to the Modified Determination of Compliance dated February 22, 1982. Two (2) mechanical vacuum pumps of 50% capacity to the surface condenser non-condensable gas removal systems. Equipment piping and valves on AECS for Stretford Delay Tank skimmer pipe and Oxidizer Tank air spargers. Up to two (2) mercury scrubbing/absorption columns vessels with activated carbon media, associated piping and valves. Condensate H2S abatement system (pumps, piping, & valving) including condensate line reroute valving and piping to cooling tower basin; a condensate sparging system in the cooling tower basin; position and/or orientation changes of the distribution header to increase contact time and efficiency, and use of Iron Chelate (Fe•HEDTA) catalyst. Distributed Control System, incorporating a central control system for the steamfield, power plant, and abatement systems with an Allen Bradley Control Logix automated processor.

Permit Conditions

Condition 1: Emissions

- A. The emissions limitations contained below shall apply during normal power plant operation, outages, and/or curtailments. All equipment shall be regularly maintained in good working order and operated in a manner to prevent or minimize air emissions.
- B. Hydrogen sulfide (H2S) emissions from the Bottle Rock Power Plant shall be limited to a maximum of five (5) pounds per hour during power plant generation and all outages. All untreated steam or condensate shall be returned to a treatment or re-injection point to ensure this level of emissions is maintained.
- C. The H2S content in the sweet gas from the Stretford shall not exceed 10ppmv, prior to dilution in the cooling tower.
- D. The H2S concentration from the gland Steam Seal System vent shall not exceed 250 ppmw, and the H2S emission rate shall not exceed 0.1 lbs/hr.
- E. Upon failure of the AECS, Bottle Rock Power, LLC (BRP) shall curtail operations to a level necessary to comply with the five (5) lbs/hr H2S emissions limitation.
- F. In the event of generalized atmospheric conditions or localized dangerous contamination of such a nature as to constitute an emergency creating a danger to the health and welfare of the citizens of Lake County, the Air Pollution Control Officer (APCO) will take immediate action by requiring BRP to reduce H2S or other emissions, or to discontinue emissions entirely.
- G. The off-gas vent to the atmosphere shall not be utilized at any time. The turbine by-pass, mechanical vacuum pumps, or other Lake County Air Quality Management District (LCAQMD) approved method shall be used to avoid direct venting into the atmosphere of undiluted non-condensables. The LCAQMD shall be notified when cold start-ups in excess of five (5) lbs H2S/hr are to occur and may cancel such activity if deemed necessary.
- H. The access road from Bottle Rock Road to the power plant shall be paved to ensure that the generation of fugitive particulate matter is minimized. This shall apply to the primary access roads, should the primary access routes change.
- I. The permit holder shall properly install and maintain a properly sized, winterized condensate (cooling tower working water, condensate reroute valving and piping) H2S abatement system modification incorporating the availability of an iron chelate (Fe•HEDTA) catalyst, hydrogen peroxide, and other additives as approved by the APCO, to achieve an overall emissions rate specified in this permit.

Condition 2: Administrative

- A. Bottle Rock Power (BRP) shall maintain and operate the power plant, Air Emissions Control System (AECS), and associated ancillary equipment as described in submitted specifications and drawings and subsequent permit modifications in accordance with good operating practices and procedures to meet the emissions limit in Condition 1. The power plant and abatement system components shall be adequately maintained and winterized.
- B. The AECS system shall consist of: A) A surface condenser to facilitate the partitioning of H2S into the non condensable gas phase; B) A Stretford Abatement System (SAS) as modified to include a 10 inch diameter skimming pipe on the delay tank and two oxidizer tank air spargers and with the ability to return the H2S gas treatment components of the AECS operation to the pre-modification operation; C) Secondary condensate treatment which includes iron chelate and/or other approved secondary abatement chemical, and reaction time to ensure the power plant will comply with the emission limitation specified in Condition #1; D) A turbine by-pass system sufficiently sized to accept 100% of full steam flow during generating outages so that the power plant AECS can be utilized to treat steam normally stacked during the outage; E) If a solids removal system is necessary as a result of solids formation in the condensate, such facility shall be incorporated into the system; F) In the event of generation loss, an alternate source of power to enable continued use of the AECS specified above shall be available; and G) A properly permitted, compliant stand by generator or alternate power supply capable of sustaining station power and the Emergency Stacking System shall be available for use in case of concurrent transmission line and generator failure.
- C. The major components of the AECS, Stretford, Turbine by-pass, and condensate abatement system shall have a 99% operating availability excluding scheduled maintenance on these individual major components.
- D. BRP shall maintain alarms and switches on the following units to ensure immediate corrective action is initiated to prevent outages and potential stacking: **Turbine Generator Unit** – 1) Excessive vibration switch, alarm and trip; 2) Lateral motion switch on the turbine shaft, alarm and trip; 3) High lube oil temperature switch, alarm and trip; 4) Low lube oil pressure switch with indicating light in control room; **Main Lube Oil Reservoir low level, alarm** – 1) Over-speed switch, alarm and trip; 2) High hydrogen gas temperature and low purity hydrogen alarm and trip; 3) Seal oil level switch and alarm; 4) Differential pressure switch to prevent low differential pressure between the seal oil and hydrogen pressure, alarm and trip; 5) Generator moisture detector and alarm; 6) Vacuum switch to prevent low vacuum in the seal oil detaining tank, alarm and trip; 7) Turbine bearing metal temperature alarm and trip; **Condensers** – 1) Pressure switch to prevent condenser pressures from exceeding design levels, alarm and trip; 2) Condensate level switches to start and stop pump, prevent excessively high condensate levels in hot well; 3) High or low condensate levels alarms; **Cooling Towers** – 1) Float indicators to indicate levels and associated low, low-low, high, and high-high alarms; 2) Vibration switches and alarms on each cooling tower fan. **Electrical System** – 1) Generator differential current trip and alarm; 2) Generator over-current trip and alarm; 3) Generator ground fault trip and alarm; 4) Generator anti-motoring trip and alarm; 5) Generator field ground trip and alarm; 6) Generator stator over temperature alarm and trip; 7) Loss of excitation trip and alarm; 8) System negative phase sequence trip and alarm; 9) Transformer differential current trip and alarm; 10) Transformer over-current trip and alarm; 11) Transformer ground fault trip

(Conditions 2 through 6 are continued on the back of this card)

THIS PERMIT BECOMES VOID UPON CHANGE OF OWNERSHIP OR LOCATION

This permit does not authorize the emission of air contaminants in excess of those allowed by the California Health and Safety Code or the Regulations of the Lake County Air Quality Management District. This permit cannot be considered permission to violate existing laws, ordinances, regulations, or statutes of other government agencies. The provisions of this Permit are severable. If any provision of this Permit is held invalid, the remainder of this Permit shall not be affected thereby.



AUTHORITY TO CONSTRUCT

Lake County Air Quality Management District

2617 S. Main Street, Lakeport, CA 95453 (707) 263-7000, Fax (707) 263-0421

Permit # A/C 2006-11

By: Douglas G. Gearhart
Douglas G. Gearhart, APCO

Type of Issuance: Renewal Issuance Date: 10/31/2025 Valid through: 10/31/2026 Category: IV

Operations under this permit must be conducted in compliance with all specifications and data included with the application under which this permit was issued. Equipment must be properly maintained and kept in good condition at all times. Post this permit or a facsimile (with conditions) in a conspicuous location on or near the equipment.

Contact: Ms. Susan Petty
Owner: Bottle Rock Power, LLC
Mailing: c/o AltaRock Energy, Inc.
Address: P.O. Box 31205
Seattle, WA 98103-8099

Facility: Coleman Padsite
Location: 600m N of S, 320m E of W, Section 5, T11N,
R8W, MDB&M, Lake County
Coleman Pad, Bottle Rock / Francisco
Leasehold, Cobb Valley, CA

Name and Equipment Description: Coleman 1A-5 Re-Drill

Geothermal drilling rig and accessories (NCPA Rig #1), Four electrical generators (CAT D-398TA 750 HP diesel engines PERP Registered), three air compressors (Cummins QSK19-C700 700 HP turbocharged diesel powered air compressors), one down hole misting pump; hydrogen sulfide abatement system utilizing high pressure injection of NaOH and H₂O₂; and particulate control equipment consisting of misting down hole, constricting and non constricting venturi contactors, low pressure water spray, expanding blooie line, properly sized, smoothed, tangential wet cyclone, properly designed drop or hopper, water treatment and management systems, necessary metering and measuring devices and associated equipment.

Permit Conditions

Condition 1: Emissions

A. Bottle Rock Power, LLC (BRP) shall limit hydrogen sulfide (H₂S) emissions during drilling, clean out, and testing to no more than five (5) pounds of H₂S per hour and no more than twenty-four (24) pounds per day during all other phases of this project. During verifiable breakdown and for any hot-liner runs, Rule 510 and procedures shall apply. In the event of atmospheric conditions (e.g., drainage, limited mixing, fumigation, downwash, etc.) that result in complaints and concern in receptor areas from high levels of H₂S, BRP agrees to reduce the H₂S emission limit to two (2) pounds of H₂S using abatement plan at the request of the Air Pollution Control Officer (APCO). Certain exceptions to the H₂S emission limitations may be allowed by the APCO, in writing, for resource testing if such tests are 12 hours or less in duration and coincide with acceptable meteorological conditions verified by the APCO to ensure good dispersion.

B. If excessively high H₂S levels are encountered during drilling, BRP will either: 1) Place into operation additional H₂S abatement capacity, or 2) Cease operation and close in the well according to appropriate standards of operation. For the purposes of this permit, excessively high levels of H₂S means abated emissions greater than five (5) pounds of H₂S per hour or abated emission levels in excess of 500 ppmv.

C. Visible emissions shall not exceed the values listed below for more than three (3) minutes in any one (1) hour: • Ringelmann 0.5 (10% opacity) for detached plume at the cyclone; • Ringelmann 0.5 (10% opacity) for combustion emissions of engine exhaust; and • Ringelmann 1 (20% opacity) for road and pad dust emissions.

D. On commencement of air drilling in significant serpentine, the well logger shall obtain bulk samples that shall be analyzed for asbestos content using TEM, SEM or PLM (California Air Resources Board [ARB] Method 435 Procedures). For the purpose of defining a significant serpentine deposit during geothermal air drilling: "Significant Serpentine" shall mean; drill cutting samples from two consecutive ten-foot interval-drilling sections identified as having 10% or greater serpentine or other asbestos containing ore. The Lake County Air Quality Management District (LCAQMD) shall be promptly notified by phone at 263-7000, provided samples of the drilled material, and unless otherwise agreed upon in writing, notified of the bulk asbestos analysis results within ten working days of sampling.

E. During drilling in significant serpentine visible emissions shall not exceed Ringelmann 0.25 (5% opacity) for detached plume at the cyclone. BRP shall: 1) Increase down hole misting; 2) Increase water loading at the venturi; 3) Reducing the drilling rate; 4) Use wetting agents; and/or 5) Implement additional solids filtration of working water. Such additional effort shall continue until drilling is clear of significant serpentine/asbestos.

Condition 2: Administrative

A. This permit has been issued as a modification to include cleanout, forking or deepening of the well as described in the application and permit review. This permit does not establish a precedent for the issuance of additional permits.

B. The submitted BRP (Tecton) H₂S abatement plan approved by the APCO shall be implemented and followed, and is incorporated herein by reference. Logbook entries shall be made a minimum of four (4) times daily while drilling on air or in steam.

C. Diesel fuel utilized shall be California Low Sulfur Diesel containing less than 15ppmw sulfur.

D. If a vapor dominated resource is encountered and it is determined that emissions cannot be maintained pursuant to Parts A & B of LCAQMD Rule 421; or the APCO determines that the well on stand-by (bleed) status will violate the intent of LCAQMD Rule 602 or the associated steamfield permit, then BRP shall with approval of the APCO, install and utilize additional abatement equipment as necessary to bring emissions into compliance. This may include, but is not limited to, immediate conversion to an injector, gas capping, down-hole plugging, and/or the complete closing in of any well in violation of LCAQMD Rules and Regulations.

E. BRP shall utilize the same particulate abatement system described in the permitting review(s) and includes the following configuration: 1) A non-constricting venturi in the smallest diameter portion of the blooie line (non-constricting venturi 12"-15") for use when flow of at least 20,000 lbs/hr air/steam and a converging venturi scrubber when drilling in less than 20,000 lbs/hr of steam, or when the pressure drop exceeds 4 PSI across the

(Conditions 2 through 6 are continued on the back of this card)

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AUTHORITY TO CONSTRUCT

Lake County Air Quality Management District

2617 S. Main Street, Lakeport, CA 95453 (707) 263-7000, Fax (707) 263-0421

Permit # A/C 2006-05

By: Douglas G. Gearhart
Douglas G. Gearhart, APCO

Type of Issuance: Renewal Issuance Date: 10/31/2025 Valid through: 10/31/2026 Category: IV

Operations under this permit must be conducted in compliance with all specifications and data included with the application under which this permit was issued. Equipment must be properly maintained and kept in good condition at all times. Post this permit or a facsimile (with conditions) in a conspicuous location on or near the equipment.

Contact: Ms. Susan Petty
Owner: Bottle Rock Power, LLC
Mailing: c/o AltaRock Energy, Inc.
Address: P.O. Box 31205
Seattle, WA 98103-8099

Facility: Coleman Padsite
Location: 600m N of S, 320m E of W, Section 5, T11N,
R8W, MDB&M, Lake County
Coleman Pad, Bottle Rock / Francisco
Leasehold, Cobb Valley, CA

Name and Equipment Description: Coleman 3-5 Re-Drill

Geothermal drilling rig and accessories (NCPA Rig #1), Four electrical generators (CAT D-398TA 750 HP diesel engines PERP Registered), three air compressors (Cummins QSK19-C700 700 HP turbocharged diesel powered air compressors), one down hole misting pump; hydrogen sulfide abatement system utilizing high pressure injection of NaOH and H₂O₂; and particulate control equipment consisting of misting down hole, constricting and non constricting venturi contactors, low pressure water spray, expanding blooie line, properly sized, smoothed, tangential wet cyclone, properly designed drop or hopper, water treatment and management systems, necessary metering and measuring devices and associated equipment.

Permit Conditions

Condition 1: Emissions

A. Bottle Rock Power, LLC (BRP) shall limit hydrogen sulfide (H₂S) emissions during drilling, clean out, and testing to no more than five (5) pounds of H₂S per hour and no more than twenty-four (24) pounds per day during all other phases of this project. During verifiable breakdown and for any hot-liner runs, Rule 510 and procedures shall apply. In the event of atmospheric conditions (e.g., drainage, limited mixing, fumigation, downwash, etc.) that result in complaints and concern in receptor areas from high levels of H₂S, BRP agrees to reduce the H₂S emission limit to two (2) pounds of H₂S using abatement plan at the request of the Air Pollution Control Officer (APCO). Certain exceptions to the H₂S emission limitations may be allowed by the APCO, in writing, for resource testing if such tests are 12 hours or less in duration and coincide with acceptable meteorological conditions verified by the APCO to ensure good dispersion.

B. If excessively high H₂S levels are encountered during drilling, BRP will either: 1) Place into operation additional H₂S abatement capacity, or 2) Cease operation and close in the well according to appropriate standards of operation. For the purposes of this permit, excessively high levels of H₂S means abated emissions greater than five (5) pounds of H₂S per hour or abated emission levels in excess of 500 ppmv.

C. Visible emissions shall not exceed the values listed below for more than three (3) minutes in any one (1) hour: • Ringelmann 0.5 (10% opacity) for detached plume at the cyclone; • Ringelmann 0.5 (10% opacity) for combustion emissions of engine exhaust; and • Ringelmann 1 (20% opacity) for road and pad dust emissions.

D. On commencement of air drilling in significant serpentine, the well logger shall obtain bulk samples that shall be analyzed for asbestos content using TEM, SEM or PLM (California Air Resources Board [ARB] Method 435 Procedures). For the purpose of defining a significant serpentine deposit during geothermal air drilling: "Significant Serpentine" shall mean; drill cutting samples from two consecutive ten-foot interval-drilling sections identified as having 10% or greater serpentine or other asbestos containing ore. The Lake County Air Quality Management District (LCAQMD) shall be promptly notified by phone at 263-7000, provided samples of the drilled material, and unless otherwise agreed upon in writing, notified of the bulk asbestos analysis results within ten working days of sampling.

E. During drilling in significant serpentine visible emissions shall not exceed Ringelmann 0.25 (5% opacity) for detached plume at the cyclone. BRP shall: 1) Increase down hole misting; 2) Increase water loading at the venturi; 3) Reducing the drilling rate; 4) Use wetting agents; and/or 5) Implement additional solids filtration of working water. Such additional effort shall continue until drilling is clear of significant serpentine/asbestos.

Condition 2: Administrative

A. This permit has been issued as a modification to include cleanout, forking or deepening of the well as described in the application and permit review. This permit does not establish a precedent for the issuance of additional permits.

B. The submitted BRP (Tecton) H₂S abatement plan approved by the APCO shall be implemented and followed, and is incorporated herein by reference. Logbook entries shall be made a minimum of four (4) times daily while drilling on air or in steam.

C. Diesel fuel utilized shall be California Low Sulfur Diesel containing less than 15ppmw sulfur.

D. If a vapor dominated resource is encountered and it is determined that emissions cannot be maintained pursuant to Parts A & B of LCAQMD Rule 421; or the APCO determines that the well on stand-by (bleed) status will violate the intent of LCAQMD Rule 602 or the associated steamfield permit, then BRP shall with approval of the APCO, install and utilize additional abatement equipment as necessary to bring emissions into compliance. This may include, but is not limited to, immediate conversion to an injector, gas capping, down-hole plugging, and/or the complete closing in of any well in violation of LCAQMD Rules and Regulations.

E. BRP shall utilize the same particulate abatement system described in the permitting review(s) and includes the following configuration: 1) A non-constricting venturi in the smallest diameter portion of the blooie line (non-constricting venturi 12"-15") for use when flow of at least 20,000 lbs/hr air/steam and a converging venturi scrubber when drilling in less than 20,000 lbs/hr of steam, or when the pressure drop exceeds 4 PSI across the

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PERMIT TO OPERATE

Lake County Air Quality Management District

2617 S. Main Street, Lakeport, CA 95453 (707) 263-7000, Fax (707) 263-0421

Permit # P/O 85-034A

By: Douglas G. Gearhart
Douglas G. Gearhart, APCO

Type of Issuance: Renewal Issuance Date: 10/31/2025 Valid through: 10/31/2026 Category: IV

Operations under this permit must be conducted in compliance with all specifications and data included with the application under which this permit was issued. Equipment must be properly maintained and kept in good condition at all times. Post this permit or a facsimile (with conditions) in a conspicuous location on or near the equipment.

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Mailing: c/o AltaRock Energy, Inc.
Address: P.O. Box 31205
Seattle, WA 98103-8099

Facility: Coleman Padsite
Location: 600m N of S, 320m E of W, Section 5, T11N,
R8W, MDB&M, Lake County
Coleman Pad, Bottle Rock / Francisco
Leasehold, Cobb Valley, CA

Name and Equipment Description: Coleman 4-5

One (1) geothermal production well, associated valving, condensate and rock removal (catcher), and bleed muffler servicing the Bottle Rock Geothermal Power Plant.

Permit Conditions

Condition 1 The herein permitted well shall be operated in compliance and consistent with the steam transmission and power plant Authority to Construct (A/C) and Permit to Operate (P/O) conditions where applicable. The herein permitted well shall be operated in compliance with all Lake County Air Quality Management District (LCAQMD), State, and Federal laws and regulations.

Condition 2 Bottle Rock Power, LLC (BRP) shall notify the LCAQMD at least twenty-four (24) hours prior to initiating the planned venting of any well or group of wells in the LCAQMD owned or operated by BRP in an amount in excess of either 3,000 lbs of steam per hour per well or 20,000 lbs of steam per hour total. Testing to characterize emissions may be required by the Air Pollution Control Officer (APCO) for significant well bleeds or vents. In the event source testing of any geothermal well is deemed necessary by the APCO, BRP will provide safe access and sampling ports.

Condition 3 BRP shall submit to the LCAQMD an application for, and receive, an A/C or modify permit prior to constructing, erecting, altering or replacing any equipment which may cause, potentially cause, reduce, control or eliminate the issuance of air contaminants. This does not include normal and routine maintenance nor well clean out and repairs. It does include deepening, altering or increasing the well bore size in a manner to constitute a modification of the source. BRP shall notify the LCAQMD in advance of, and receive approval for, any planned reworking/maintenance of any of the herein permitted production wells. Conditions for approval of such maintenance work will consider the level and duration of emissions, and the conditions incorporated in current BRP A/C permits and performance plans. BRP shall within thirty (30) days after the completion of re-drilling, reworking or flow testing submit to the LCAQMD the results of any routine or required chemical analysis and/or testing accomplished for the herein listed geothermal development wells that indicate emissions or potential emissions into the air.

(Conditions 4 through 12 are continued on the back of this card)

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AUTHORITY TO CONSTRUCT

Lake County Air Quality Management District

2617 S. Main Street, Lakeport, CA 95453 (707) 263-7000, Fax (707) 263-0421

Permit # A/C 2006-06

By: Douglas G. Gearhart
Douglas G. Gearhart, APCO

Type of Issuance: Renewal

Issuance Date: 10/31/2025 Valid through: 10/31/2026 Category: IV

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Permit Conditions

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B. If excessively high H₂S levels are encountered during drilling, BRP will either: 1) Place into operation additional H₂S abatement capacity, or 2) Cease operation and close in the well according to appropriate standards of operation. For the purposes of this permit, excessively high levels of H₂S means abated emissions greater than five (5) pounds of H₂S per hour or abated emission levels in excess of 500 ppmv.

C. Visible emissions shall not exceed the values listed below for more than three (3) minutes in any one (1) hour: • Ringelmann 0.5 (10% opacity) for detached plume at the cyclone; • Ringelmann 0.5 (10% opacity) for combustion emissions of engine exhaust; and • Ringelmann 1 (20% opacity) for road and pad dust emissions.

D. On commencement of air drilling in significant serpentine, the well logger shall obtain bulk samples that shall be analyzed for asbestos content using TEM, SEM or PLM (California Air Resources Board [ARB] Method 435 Procedures). For the purpose of defining a significant serpentine deposit during geothermal air drilling: "Significant Serpentine" shall mean; drill cutting samples from two consecutive ten-foot interval-drilling sections identified as having 10% or greater serpentine or other asbestos containing ore. The Lake County Air Quality Management District (LCAQMD) shall be promptly notified by phone at 263-7000, provided samples of the drilled material, and unless otherwise agreed upon in writing, notified of the bulk asbestos analysis results within ten working days of sampling.

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Condition 2: Administrative

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B. The submitted BRP (Tecton) H₂S abatement plan approved by the APCO shall be implemented and followed, and is incorporated herein by reference. Logbook entries shall be made a minimum of four (4) times daily while drilling on air or in steam.

C. Diesel fuel utilized shall be California Low Sulfur Diesel containing less than 15ppmw sulfur.

D. If a vapor dominated resource is encountered and it is determined that emissions cannot be maintained pursuant to Parts A & B of LCAQMD Rule 421; or the APCO determines that the well on stand-by (bleed) status will violate the intent of LCAQMD Rule 602 or the associated steamfield permit, then BRP shall with approval of the APCO, install and utilize additional abatement equipment as necessary to bring emissions into compliance. This may include, but is not limited to, immediate conversion to an injector, gas capping, down-hole plugging, and/or the complete closing in of any well in violation of LCAQMD Rules and Regulations.

E. BRP shall utilize the same particulate abatement system described in the permitting review(s) and includes the following configuration: 1) A non-constricting venturi in the smallest diameter portion of the blooie line (non-constricting venturi 12"-15") for use when flow of at least 20,000 lbs/hr

(Conditions 2 through 6 are continued on the back of this card)

THIS PERMIT BECOMES VOID UPON CHANGE OF OWNERSHIP OR LOCATION

This permit does not authorize the emission of air contaminants in excess of those allowed by the California Health and Safety Code or the Regulations of the Lake County Air Quality Management District. This permit cannot be considered permission to violate existing laws, ordinances, regulations, or statutes of other government agencies. The provisions of this Permit are severable. If any provision of this Permit is held invalid, the remainder of this Permit shall not be affected thereby.



PERMIT TO OPERATE

Lake County Air Quality Management District

2617 S. Main Street, Lakeport, CA 95453 (707) 263-7000, Fax (707) 263-0421

Permit # P/O 2014-10

By: Douglas G. Gearhart
Douglas G. Gearhart, APCO

Type of Issuance: Renewal Issuance Date: 10/31/2025 Valid through: 10/31/2026 Category: IV

Operations under this permit must be conducted in compliance with all specifications and data included with the application under which this permit was issued. Equipment must be properly maintained and kept in good condition at all times. Post this permit or a facsimile (with conditions) in a conspicuous location on or near the equipment.

Contact: Ms. Susan Petty
Owner: Bottle Rock Power, LLC
Mailing: c/o AltaRock Energy, Inc.
Address: P.O. Box 31205
Seattle, WA 98103-8099

Facility: Coleman Padsite
Location: 600m N of S, 320m E of W, Section 5, T11N,
R8W, MDB&M, Lake County
Coleman Pad, Bottle Rock / Francisco
Leasehold, Cobb Valley, CA

Name and Equipment Description: Coleman 6-5

One (1) geothermal production/injection well, associated valving, condensate and rock removal (catcher), and bleed muffler servicing the Bottle Rock Geothermal Power Plant. One (1) geothermal production well condensate collection piping system constructed of: 20' x 36" slotted and solid pipe, with cone reducer, one (1) 12" cleanout, and two (2) knock-out pots.

Permit Conditions

Condition 1: Emissions

- A. Bottle Rock Power, LLC (BRP) shall limit Hydrogen Sulfide (H₂S) emissions during drilling, clean out, and testing to no more than five (5) pounds of H₂S per hour and no more than twenty-four (24) pounds per day during all other phases of this project. During verified breakdown and for hot-liner installations, Lake County Air Quality Management District (LCAQMD) Rule 510 and procedures shall apply. In the event of atmospheric conditions (e.g., drainage, limited mixing, fumigation, downwash, etc.) that result in complaints and concern in receptor areas from high levels of H₂S, BRP agrees to reduce the H₂S emission limit to two (2) pounds or less of H₂S per hour consistent with the BRP H₂S Abatement Plan, at the request of the Air Pollution Control Officer (APCO). Certain exceptions to the H₂S emission limitations may be allowed by the APCO, in writing, for resource testing if such tests are 12 hours or less in duration and coincide with acceptable meteorological conditions verified by the APCO to ensure good dispersion.
- B. If excessively high H₂S levels are encountered during drilling, BRP will either: a) Place into operation additional H₂S abatement capacity, or b) Cease operation and close in the well according to appropriate standards of operation. For the purposes of this permit, excessively high levels of H₂S means abated emissions greater than five (5) pounds of H₂S per hour or abated emission levels in excess of 500 ppm volume.
- C. Visible emissions shall not exceed the values listed below for more than three (3) minutes in any one (1) hour: • Ringelmann 0.5 (10% opacity) for detached plume at the cyclone; • Ringelmann 0.5 (10% opacity) for combustion emissions engine exhaust; and • Ringelmann 1 (20% opacity) for road and pad dust emissions.
- D. On commencement of air drilling in significant serpentine or upon experiencing red/pink plume exiting the cyclone, the well logger shall immediately obtain bulk samples of the drilled material and log the event in the abatement logbook, and shall be analyzed for asbestos content using TEM, SEM or PLM (California Air Resources Board [ARB] Method 435 Procedures). "Experiencing a pink/red plume" shall mean a plume of greater than 5% opacity lasting for 30 or more seconds. For the purpose of defining a significant serpentine deposit during geothermal air drilling: "Significant Serpentine" shall mean; drill cutting samples from two consecutive ten-foot interval-drilling sections identified as having 10% or greater serpentine content. The LCAQMD shall be promptly notified by phone at 263-7000, provided a portion of the divided bulk samples of the drilled material, and unless otherwise agreed upon in writing, notified of the bulk asbestos analysis results within ten (10) working days of sampling. Bulk Samples collected upon experiencing a pink/red plume shall be promptly analyzed by XRF, or other acceptable means, to include at a minimum arsenic, chrome, nickel and cadmium. BRP shall, to the extent practical attempt to collect a sample of the particulate from the pink/red plume, and/or assist the LCAQMD in such an attempt, for analysis as described.
- E. During drilling in significant serpentine, or while experiencing a pink/red plume, visible emissions shall not exceed Ringelmann 0.25 (5% opacity) for detached plume at the cyclone. BRP shall: 1) Increase down hole misting; 2) Increase water loading at the venturi; 3) Reducing the drilling rate; 4) Use wetting agents; and/or 5) Implement additional solids filtration of working water. Such additional effort shall continue until drilling is clear of significant serpentine or drilling conditions contributing to the formation of pink/red plume.

Condition 2: Administrative

- A. This permit has been issued for the geothermal well to function in either injection or production mode. The well is constructed at a total depth of 10,700 feet and includes a well bore, well head, valving, piping, flanges, geothermal fluid transmission line header connections, side leg kick-out, two part slotted liner, and associated corrosion mitigation injection equipment. This permit allows drilling for well maintenance; significant drilling and work overs may require an Authority to Construct permit for the modification. This permit does not establish a precedent for the issuance of additional permits.
- B. The submitted BRP H₂S abatement plan approved by the APCO or subsequent approved revision, shall be implemented and followed, and is incorporated herein by reference. Logbook entries shall be made a minimum of four (4) times daily.
- C. Diesel fuel utilized shall be California Low Sulfur Diesel containing less than 15 ppmw sulfur.
- D. If a vapor dominated resource is encountered and it is determined that emissions cannot be maintained pursuant to Parts A & B of LCAQMD Rule 421; or the APCO

(Conditions 2 through 6 are continued on the back of this card)

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AUTHORITY TO CONSTRUCT

Lake County Air Quality Management District

2617 S. Main Street, Lakeport, CA 95453 (707) 263-7000, Fax (707) 263-0421

Permit # A/C 2006-30

By: Douglas G. Gearhart
Douglas G. Gearhart, APCO

Type of Issuance: Renewal Issuance Date: 10/31/2025 Valid through: 10/31/2026 Category: IV

Operations under this permit must be conducted in compliance with all specifications and data included with the application under which this permit was issued. Equipment must be properly maintained and kept in good condition at all times. Post this permit or a facsimile (with conditions) in a conspicuous location on or near the equipment.

Contact: Ms. Susan Petty
Owner: Bottle Rock Power, LLC
Mailing: c/o AltaRock Energy, Inc.
Address: P.O. Box 31205
Seattle, WA 98103-8099

Facility: Coleman Padsite
Location: 600m N of S, 320m E of W, Section 5, T11N,
R8W, MDB&M, Lake County Coleman Pad,
Bottle Rock / Francisco Leasehold, Cobb Valley,
CA

Name and Equipment Description: Coleman 7-5

Geothermal drilling rig and accessories (NCPA Rig #1, equivalent or superior), four (4) electrical generators (CAT D-398TA 750 HP diesel engines PERP Registered), three (3) air compressors (Cummins QSK19-C700 700 HP turbocharged diesel powered air compressors), one (1) down hole misting pump; hydrogen sulfide abatement system utilizing high pressure injection of NaOH and H₂O₂; and particulate control equipment consisting of misting down hole, constricting and non constricting venturi contactors, low pressure water spray, expanding blooie line, properly sized, smoothed, tangential wet cyclone, properly designed drop or hopper, water treatment and management systems, necessary metering and measuring devices and associated equipment.

Permit Conditions

Condition 1: Emissions

- A. Bottle Rock Power, LLC (BRP) shall limit hydrogen sulfide (H₂S) emissions during drilling, clean out, and testing to no more than five (5) pounds of H₂S per hour and no more than twenty-four (24) pounds per day during all other phases of this project. During verifiable breakdown and for any hot-liner runs, Rule 510 and procedures shall apply. In the event of atmospheric conditions (e.g., drainage, limited mixing, fumigation, downwash, etc.) that result in complaints and concern in receptor areas from high levels of H₂S, BRP agrees to reduce the H₂S emission limit to two (2) pounds of H₂S per hour using the approved abatement plan at the request of the Air Pollution Control Officer (APCO). Certain exceptions to the H₂S emission limitations may be allowed by the APCO, in writing, for resource testing if such tests are 12 hours or less in duration and coincide with acceptable meteorological conditions verified by the APCO to ensure good dispersion.
- B. If excessively high H₂S levels are encountered during drilling, BRP will either: 1) Place into operation additional H₂S abatement capacity, or 2) Cease operation and close in the well according to appropriate standards of operation. For the purposes of this permit, excessively high levels of H₂S means abated emissions greater than five (5) pounds of H₂S per hour or abated emission levels in excess of 500 ppmv.
- C. Visible emissions shall not exceed the values listed below for more than three (3) minutes in any one (1) hour:
- Ringelmann 0.5 (10% opacity) for detached plume at the cyclone;
 - Ringelmann 0.5 (10% opacity) for combustion emissions of engine exhaust; and
 - Ringelmann 1 (20% opacity) for road and pad dust emissions.
- D. On commencement of air drilling in significant serpentine, the well logger shall obtain bulk samples that shall be analyzed for asbestos content using TEM, SEM or PLM (California Air Resources Board [ARB] Method 435 Procedures). For the purpose of defining a significant serpentine deposit during geothermal air drilling: "Significant Serpentine" shall mean; drill cutting samples from two consecutive ten-foot interval-drilling sections identified as having 10% or greater serpentine or other asbestos containing ore. The Lake County Air Quality Management District (LCAQMD) shall be promptly notified by phone at 263-7000, provided samples of the drilled material, and unless otherwise agreed upon in writing, notified of the bulk asbestos analysis results within ten working days of sampling.
- E. During drilling in significant serpentine visible emissions shall not exceed Ringelmann 0.25 (5% opacity) for detached plume at the cyclone. BRP shall: 1) Increase down hole misting; 2) Increase water loading at the venturi; 3) Reducing the drilling rate; 4) Use wetting agents; and/or 5) Implement additional solids filtration of working water. Such additional effort shall continue until drilling is clear of significant serpentine/asbestos.

Condition 2: Administrative

- A. This permit has been issued for the construction of a geothermal production well to include a fork leg from the main bore as described in the application and permit review. This permit does not establish a precedent for the issuance of additional permits.
- B. The submitted BRP (Tecton) H₂S abatement plan approved by the APCO shall be implemented and followed, and is incorporated herein by reference. Logbook entries shall be made a minimum of four (4) times daily while drilling on air or in steam.
- C. Diesel fuel utilized shall be California Low Sulfur Diesel containing less than 15ppmw sulfur.
- D. If a vapor dominated resource is encountered and it is determined that emissions cannot be maintained pursuant to Parts A & B of LCAQMD Rule 421; or the APCO determines that the well on stand-by (bleed) status will violate the intent of LCAQMD Rule 602 or the associated steamfield permit, then BRP shall with approval of the APCO, install and utilize additional abatement equipment as necessary to bring emissions into compliance. This may include, but is not limited to, immediate conversion to an injector, gas capping, down-hole plugging, and/or the complete closing in of any well in violation of LCAQMD Rules and Regulations.

(Conditions 2 through 6 are continued on the back of this card)

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AUTHORITY TO CONSTRUCT

Lake County Air Quality Management District

2617 S. Main Street, Lakeport, CA 95453 (707) 263-7000, Fax (707) 263-0421

Permit # A/C 2006-31

By: Douglas G. Gearhart
Douglas G. Gearhart, APCO

Type of Issuance: Renewal

Issuance Date: 10/31/2025 Valid through: 10/31/2026 Category: IV

Operations under this permit must be conducted in compliance with all specifications and data included with the application under which this permit was issued. Equipment must be properly maintained and kept in good condition at all times. Post this permit or a facsimile (with conditions) in a conspicuous location on or near the equipment.

Contact: Ms. Susan Petty
Owner: Bottle Rock Power, LLC
Mailing: c/o AltaRock Energy, Inc.
Address: P.O. Box 31205
Seattle, WA 98103-8099

Facility: Coleman Padsite
Location: 600m N of S, 320m E of W, Section 5, T11N,
R8W, MDB&M, Lake County Coleman Pad,
Bottle Rock / Francisco Leasehold, Cobb Valley,
CA

Name and Equipment Description: Coleman 8-5

Geothermal drilling rig and accessories (NCPA Rig #1, equivalent or superior), four (4) electrical generators (CAT D-398TA 750 HP diesel engines PERP Registered), three (3) air compressors (Cummins QSK19-C700 700 HP turbocharged diesel powered air compressors), one (1) down hole misting pump; hydrogen sulfide abatement system utilizing high pressure injection of NaOH and H₂O₂; and particulate control equipment consisting of misting down hole, constricting and non constricting venturi contactors, low pressure water spray, expanding blooie line, properly sized, smoothed, tangential wet cyclone, properly designed drop or hopper, water treatment and management systems, necessary metering and measuring devices and associated equipment.

Permit Conditions

Condition 1: Emissions

- A. Bottle Rock Power, LLC (BRP) shall limit hydrogen sulfide (H₂S) emissions during drilling, clean out, and testing to no more than five (5) pounds of H₂S per hour and no more than twenty-four (24) pounds per day during all other phases of this project. During verifiable breakdown and for any hot-liner runs, Rule 510 and procedures shall apply. In the event of atmospheric conditions (e.g., drainage, limited mixing, fumigation, downwash, etc.) that result in complaints and concern in receptor areas from high levels of H₂S, BRP agrees to reduce the H₂S emission limit to two (2) pounds of H₂S per hour using the approved abatement plan at the request of the Air Pollution Control Officer (APCO). Certain exceptions to the H₂S emission limitations may be allowed by the APCO, in writing, for resource testing if such tests are 12 hours or less in duration and coincide with acceptable meteorological conditions verified by the APCO to ensure good dispersion.
- B. If excessively high H₂S levels are encountered during drilling, BRP will either: 1) Place into operation additional H₂S abatement capacity, or 2) Cease operation and close in the well according to appropriate standards of operation. For the purposes of this permit, excessively high levels of H₂S means abated emissions greater than five (5) pounds of H₂S per hour or abated emission levels in excess of 500 ppmv.
- C. Visible emissions shall not exceed the values listed below for more than three (3) minutes in any one (1) hour:
- Ringelmann 0.5 (10% opacity) for detached plume at the cyclone;
 - Ringelmann 0.5 (10% opacity) for combustion emissions of engine exhaust; and
 - Ringelmann 1 (20% opacity) for road and pad dust emissions.
- D. On commencement of air drilling in significant serpentine, the well logger shall obtain bulk samples that shall be analyzed for asbestos content using TEM, SEM or PLM (California Air Resources Board [ARB] Method 435 Procedures). For the purpose of defining a significant serpentine deposit during geothermal air drilling: "Significant Serpentine" shall mean; drill cutting samples from two consecutive ten-foot interval-drilling sections identified as having 10% or greater serpentine or other asbestos containing ore. The Lake County Air Quality Management District (LCAQMD) shall be promptly notified by phone at 263-7000, provided samples of the drilled material, and unless otherwise agreed upon in writing, notified of the bulk asbestos analysis results within ten working days of sampling.
- E. During drilling in significant serpentine visible emissions shall not exceed Ringelmann 0.25 (5% opacity) for detached plume at the cyclone. BRP shall: 1) Increase down hole misting; 2) Increase water loading at the venturi; 3) Reducing the drilling rate; 4) Use wetting agents; and/or 5) Implement additional solids filtration of working water. Such additional effort shall continue until drilling is clear of significant serpentine/asbestos.

Condition 2: Administrative

- A. This permit has been issued for the construction of a geothermal production well to include a fork leg from the main bore as described in the application and permit review. This permit does not establish a precedent for the issuance of additional permits.
- B. The submitted BRP (Tecton) H₂S abatement plan approved by the APCO shall be implemented and followed, and is incorporated herein by reference. Logbook entries shall be made a minimum of four (4) times daily while drilling on air or in steam.
- C. Diesel fuel utilized shall be California Low Sulfur Diesel containing less than 15ppmw sulfur.
- D. If a vapor dominated resource is encountered and it is determined that emissions cannot be maintained pursuant to Parts A & B of LCAQMD Rule 421; or the APCO determines that the well on stand-by (bleed) status will violate the intent of LCAQMD Rule 602 or the associated steamfield permit, then BRP shall with approval of the APCO, install and utilize additional abatement equipment as necessary to bring emissions into compliance. This may include, but is not limited to, immediate conversion to an injector, gas capping, down-hole plugging, and/or the complete closing in of any well in violation of LCAQMD Rules and Regulations.

(Conditions 2 through 6 are continued on the back of this card)

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PERMIT TO OPERATE

Lake County Air Quality Management District

2617 S. Main Street, Lakeport, CA 95453 (707) 263-7000, Fax (707) 263-0421

Permit # P/O 2014-07

By: Douglas G. Gearhart
Douglas G. Gearhart, APCO

Type of Issuance: Renewal Issuance Date: 10/31/2025 Valid through: 10/31/2026 Category: II

Operations under this permit must be conducted in compliance with all specifications and data included with the application under which this permit was issued. Equipment must be properly maintained and kept in good condition at all times. Post this permit or a facsimile (with conditions) in a conspicuous location on or near the equipment.

Contact: Ms. Susan Petty
Owner: Bottle Rock Power, LLC
Mailing: c/o AltaRock Energy, Inc.
Address: P.O. Box 31205
Seattle, WA 98103-8099

Facility: Bottle Rock Power Plant
Location: 7557 High Valley Rd., Cobb, CA.
Sec 5, T11N, R8W, MDB&M Lake County
Francisco/Coleman Leasehold

Name and Equipment Description: Emergency Backup Diesel Generator and Propane Generator

One (1) Condec-Lima Electric Model AA90614DK generator set, powered by a 1982 model year 760hp Cummins VTA-1710-6-1 diesel engine (S/N 37106133) and one (1) Generac Model 0046742 generator set, powered by a 16hp Generac VII18 propane engine (S/N 4350062).

Permit Conditions

Condition 1: Emissions

A. All equipment shall be regularly maintained in good working order pursuant to manufacturer's guidelines and operated in a manner to prevent or minimize air emissions. The Lake County Air Quality Management District (LCAQMD) shall be notified pursuant to Rule 510, regarding equipment breakdown.

B. The total ROG, PM-10, SOx or NOx emission rate for this facility shall not exceed 25 tons per 12-month period. This emission rate determination shall be consistent with the methodology and assumptions used to evaluate the application under which this permit was issued.

C. Visible emissions shall not exceed Ringelmann 1 (20% opacity) from the diesel engine generator exhaust stack for more than three (3) minutes in any one (1) hour.

Condition 2: Administrative

A. This permit has been issued and is valid for emergency diesel engine generator use when neither house power nor commercial line power is available because of an emergency or line maintenance outage. Use of the generator for any other purpose will subject the source to NSR and reassessment under the Air Toxics Control Measure (ATCM) for Compression Ignition engines to include control equipment retrofit or other upgrades. The propane generator may be used for prime power when commercial line power is not available.

B. Testing and Maintenance operations are allowed for up to 20 hours per 12-month period for the diesel engine.

C. Diesel fuel utilized shall be California Low Sulfur Diesel containing less than 15ppmw sulfur.

(Conditions 2 through 6 are continued on the back of this card)

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PERMIT TO OPERATE

Lake County Air Quality Management District

2617 S. Main Street, Lakeport, CA 95453 (707) 263-7000, Fax (707) 263-0421

Permit # P/O 2014-06

By: Douglas G. Gearhart
Douglas G. Gearhart, APCO

Type of Issuance: Renewal Issuance Date: 10/31/2025 Valid through: 10/31/2026 Category: II

Operations under this permit must be conducted in compliance with all specifications and data included with the application under which this permit was issued. Equipment must be properly maintained and kept in good condition at all times. Post this permit or a facsimile (with conditions) in a conspicuous location on or near the equipment.

Contact: Ms. Susan Petty
Owner: Bottle Rock Power, LLC
Mailing: c/o AltaRock Energy, Inc.
Address: P.O. Box 31205
Seattle, WA 98103-8099

Facility: Bottle Rock Steamfield Office
Location: 7557 High Valley Rd.
Cobb, CA 95426

Name and Equipment Description: Emergency Backup Diesel Generators and Propane Generator

One (1) Condec generator set (S/N BC24958EG), powered by a 1982 model year 100.5 hp Deutz F6L413FR diesel engine (S/N 6710917), one (1) Air Diesel F-3592B generator set, powered by a 20 hp Deutz 2L912 diesel engine (S/N B22390FF) and one (1) Generac GH-410 (8 kW) generator set, powered by a 14.8 hp propane engine (S/N 6253552).

Permit Conditions

Condition 1: Emissions

A. All equipment shall be regularly maintained in good working order pursuant to manufacturer's guidelines and operated in a manner to prevent or minimize air emissions. The Lake County Management District (LCAQMD) shall be notified pursuant to Rule 510, regarding equipment breakdown.

B. The total ROG, PM-10, SOx or NOx emission rate for this facility shall not exceed 25 tons per 12-month period. This emission rate determination shall be consistent with the methodology and assumptions used to evaluate the application under which this permit was issued.

C. Visible emissions shall not exceed Ringelmann 1 (20% opacity) from the generator exhaust stack for more than three (3) minutes in any one (1) hour.

Condition 2: Administrative

A. This permit has been issued and is valid for emergency diesel engine generator use when neither house power nor commercial line power is available because of an emergency or line maintenance outage. Use of the generator for any other purpose will subject the source to NSR and reassessment under the Air Toxics Control Measure (ATCM) for Compression Ignition engines to include control equipment retrofit or other upgrades. The propane generator may be used for prime power when commercial line power is not available.

B. Testing and Maintenance operations are allowed for up to 20 hours per 12-month period per diesel engine.

C. Diesel fuel utilized shall be California Low Sulfur Diesel containing less than 15ppmw sulfur.

(Conditions 2 through 6 are continued on the back of this card)

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PERMIT TO OPERATE

Lake County Air Quality Management District

2617 S. Main Street, Lakeport, CA 95453 (707) 263-7000, Fax (707) 263-0421

Permit # P/O 2014-08

By: Douglas G. Gearhart
Douglas G. Gearhart, APCO

Type of Issuance: Renewal Issuance Date: 10/31/2025 Valid through: 10/31/2026 Category: II

Operations under this permit must be conducted in compliance with all specifications and data included with the application under which this permit was issued. Equipment must be properly maintained and kept in good condition at all times. Post this permit or a facsimile (with conditions) in a conspicuous location on or near the equipment.

Contact: Ms. Susan Petty
Owner: Bottle Rock Power, LLC
Mailing: c/o AltaRock Energy, Inc.
Address: P.O. Box 31205
Seattle, WA 98103-8099

Facility: Coleman Padsite
Location: 600m N of S, 320m E of W, Section 5, T11N,
R8W, MDB&M, Lake County
Coleman Pad, Bottle Rock / Francisco
Leasehold, Cobb Valley, CA

Name and Equipment Description: Emergency Backup Propane Generator

One (1) Generac Guardian Model Generator, powered by a 32 HP, Generac 922cc V-Twin propane engine, S/N:5281627, Model Year 2008.

Permit Conditions

Condition 1: Emissions

A. All equipment shall be regularly maintained in good working order, pursuant to manufacturer's guidelines, and operated in a manner to prevent or minimize air emissions.

B. The total ROG, PM-10, SOx or NOx emission rate for this facility shall not exceed 25 tons per 12-month period.

C. The Lake County Air Quality Management District (LCAQMD) shall be notified pursuant to Rule 510 regarding equipment breakdown.

D. Visible emissions shall not exceed Ringelmann 1 (20% opacity) from the engine exhaust stack for more than three (3) minutes in any one (1) hour.

Condition 2: Administrative

A. This permit has been issued and is valid for emergency generator use when commercial line power is not available because of an emergency or line maintenance outage. Load shedding for cost reduction is not allowed under this permit. Such anticipated use will subject the source to NSR and reassessment.

B. Testing and maintenance operations are allowed for up to 50 hours per 12-month period.

C. The generator shall be propane fueled only, conversion or replacement with diesel shall require reassessment and compliance with the Air Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines.

(Conditions 2 through 6 are continued on the back of this card)

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AUTHORITY TO CONSTRUCT

Lake County Air Quality Management District

2617 S. Main Street, Lakeport, CA 95453 (707) 263-7000, Fax (707) 263-0421

Permit # A/C 17-76-36A

By: Douglas G. Gearhart
Douglas G. Gearhart, APCO

Type of Issuance: Renewal Issuance Date: 10/31/2025 Valid through: 10/31/2026 Category: IV

Operations under this permit must be conducted in compliance with all specifications and data included with the application under which this permit was issued. Equipment must be properly maintained and kept in good condition at all times. Post this permit or a facsimile (with conditions) in a conspicuous location on or near the equipment.

Contact: Ms. Susan Petty
Owner: Bottle Rock Power, LLC
Mailing: c/o AltaRock Energy, Inc.
Address: P.O. Box 31205
Seattle, WA 98103-8099

Facility: Francisco Padsite
Location: 400m S of N, 310m E of W, Sections 5, T11N,
R8W, MDB&M, Lake County
Francisco Pad, Francisco / Bottle Rock
Leasehold, Cobb Valley, CA

Name and Equipment Description: Francisco 1-5

One (1) geothermal production well, associated valving, condensate and rock removal (catcher) and bleed muffler servicing the Bottle Rock Geothermal Power Plant.

Permit Conditions

Condition 1 Bottle Rock Power, LLC (BRP) shall perform and forward to the Lake County Air Quality Management District (LCAQMD), the following characterization of hot water, steam, particulates and/or gases emanating from the subject well(s) within sixty (60) days after completion of the initial geothermal drilling and testing. If the well is abandoned, no analyses will be necessary.

STEAM CONDENSATE/TOTAL STEAM: Benzene, Ammonium (total)*, Arsenic*, Bicarbonate and Carbonate, Sulfates, Chlorides, Nitrates, Boron (total)*, Hydrogen Sulfide (H₂S) (total)*, Fluorides (total), Mercury (total), pH, Total Dissolved Solids, Total Suspended Solids, Percent Non-Condensables, and Steam Flow and Temperature*.

GAS PHASE: Benzene, Particulate in Steam (ug particulate/g of Steam, Arsenic, Lead, Cadmium, Total Sulfur, Boron), Ammonia, Mercury Vapor, Radon 222 and Daughters, Methane, Non-Methane Hydrocarbons, Carbon Dioxide, and NESHAPS pollutants as requested. Tests can be performed utilizing the bleed of the subject well(s) or during flow testing. Gas phase (non-condensables or steam diluted with air as appropriate to maintain gas phase and integrity of sample) tests are to be performed if wells are placed on long term standby bleed. The test protocol shall be submitted to the LCAQMD at least three (3) weeks before such sample collection and analytical testing is planned and shall be approved by the LCAQMD prior to actual source testing. If the well is produced immediately, the LCAQMD may delay required testing (specifically those items without an asterisk) until circumstances require a sustained bleed status of the well, this shall be at the LCAQMD's option and BRP's request.

Condition 2 BRP shall notify the LCAQMD at least twenty-four (24) hours prior to initiating the planned venting of the herein permitted well or any associated group of well(s) in the LCAQMD owned or operated by BRP.

Condition 3 In the event source testing of the herein permitted geothermal well is deemed necessary by the Air Pollution Control Officer (APCO), BRP will be available within ten (10) days after written notice to open said well for a 4-8 hour duration.

Condition 4 If chemical or particulate analysis performed as part of Condition 1 suggests the need for further study, including air dispersion analysis, BRP will assist, perform or finance such studies if deemed reasonable and necessary by the APCO.

Condition 5 If locks or unmanned gates are used to secure the project area, the LCAQMD or its representative, will be given keys or combinations and

(Conditions 5 through 19 are continued on the back of this card)

THIS PERMIT BECOMES VOID UPON CHANGE OF OWNERSHIP OR LOCATION

This permit does not authorize the emission of air contaminants in excess of those allowed by the California Health and Safety Code or the Regulations of the Lake County Air Quality Management District. This permit cannot be considered permission to violate existing laws, ordinances, regulations, or statutes of other government agencies. The provisions of this Permit are severable. If any provision of this Permit is held invalid, the remainder of this Permit shall not be affected thereby.



AUTHORITY TO CONSTRUCT

Lake County Air Quality Management District
2617 S. Main Street, Lakeport, CA 95453 (707) 263-7000, Fax (707) 263-0421

Permit # A/C 2006-07

By: Douglas G. Gearhart
Douglas G. Gearhart, APCO

Type of Issuance: Renewal Issuance Date: 10/31/2025 Valid through: 10/31/2026 Category: IV

Operations under this permit must be conducted in compliance with all specifications and data included with the application under which this permit was issued. Equipment must be properly maintained and kept in good condition at all times. Post this permit or a facsimile (with conditions) in a conspicuous location on or near the equipment.

Contact: Ms. Susan Petty
Owner: Bottle Rock Power, LLC
Mailing: c/o AltaRock Energy, Inc.
Address: P.O. Box 31205
Seattle, WA 98103-8099

Facility: Francisco Padsite
Location: 400m S of N, 310m E of W, Sections 5, T11N,
R8W, MDB&M, Lake County
Francisco Pad, Francisco / Bottle Rock
Leasehold, Cobb Valley, CA

Name and Equipment Description: Francisco 2-5 Re-Drill

Geothermal drilling rig and accessories (NCPA Rig #1), Four electrical generators (CAT D-398TA 750 HP diesel engines PERP Registered), three air compressors (Cummins QSK19-C700 700 HP turbocharged diesel powered air compressors), one down hole misting pump; hydrogen sulfide abatement system utilizing high pressure injection of NaOH and H₂O₂; and particulate control equipment consisting of misting down hole, constricting and non constricting venturi contactors, low pressure water spray, expanding blooie line, properly sized, smoothed, tangential wet cyclone, properly designed drop or hopper, water treatment and management systems, necessary metering and measuring devices and associated equipment.

Permit Conditions

Condition 1: Emissions

- A. Bottle Rock Power, LLC (BRP) shall limit hydrogen sulfide (H₂S) emissions during drilling, clean out, and testing to no more than five (5) pounds of H₂S per hour and no more than twenty-four (24) pounds per day during all other phases of this project. During verifiable breakdown and for any hot-liner runs, Rule 510 and procedures shall apply. In the event of atmospheric conditions (e.g., drainage, limited mixing, fumigation, downwash, etc.) that result in complaints and concern in receptor areas from high levels of H₂S, BRP agrees to reduce the H₂S emission limit to two (2) pounds of H₂S using abatement plan at the request of the Air Pollution Control Officer (APCO). Certain exceptions to the H₂S emission limitations may be allowed by the APCO, in writing, for resource testing if such tests are 12 hours or less in duration and coincide with acceptable meteorological conditions verified by the APCO to ensure good dispersion.
- B. If excessively high H₂S levels are encountered during drilling, BRP will either: 1) Place into operation additional H₂S abatement capacity, or 2) Cease operation and close in the well according to appropriate standards of operation. For the purposes of this permit, excessively high levels of H₂S means abated emissions greater than five (5) pounds of H₂S per hour or abated emission levels in excess of 500 ppmv.
- C. Visible emissions shall not exceed the values listed below for more than three (3) minutes in any one (1) hour: • Ringelmann 0.5 (10% opacity) for detached plume at the cyclone; • Ringelmann 0.5 (10% opacity) for combustion emissions of engine exhaust; and • Ringelmann 1 (20% opacity) for road and pad dust emissions.
- D. On commencement of air drilling in significant serpentine, the well logger shall obtain bulk samples that shall be analyzed for asbestos content using TEM, SEM or PLM (California Air Resources Board [ARB] Method 435 Procedures). For the purpose of defining a significant serpentine deposit during geothermal air drilling: "Significant Serpentine" shall mean; drill cutting samples from two consecutive ten-foot interval-drilling sections identified as having 10% or greater serpentine or other asbestos containing ore. The Lake County Air Quality Management District (LCAQMD) shall be promptly notified by phone at 263-7000, provided samples of the drilled material, and unless otherwise agreed upon in writing, notified of the bulk asbestos analysis results within ten working days of sampling.
- E. During drilling in significant serpentine visible emissions shall not exceed Ringelmann 0.25 (5% opacity) for detached plume at the cyclone. BRP shall: 1) Increase down hole misting; 2) Increase water loading at the venturi; 3) Reducing the drilling rate; 4) Use wetting agents; and/or 5) Implement additional solids filtration of working water. Such additional effort shall continue until drilling is clear of significant serpentine/asbestos.

Condition 2: Administrative

- A. This permit has been issued as a modification to include cleanout, forking or deepening of the well as described in the application and permit review. This permit does not establish a precedent for the issuance of additional permits.
- B. The submitted BRP (Tecton) H₂S abatement plan approved by the APCO shall be implemented and followed, and is incorporated herein by reference. Logbook entries shall be made a minimum of four (4) times daily while drilling on air or in steam.
- C. Diesel fuel utilized shall be California Low Sulfur Diesel containing less than 15ppmw sulfur.
- D. If a vapor dominated resource is encountered and it is determined that emissions cannot be maintained pursuant to Parts A & B of LCAQMD Rule 421; or the APCO determines that the well on stand-by (bleed) status will violate the intent of LCAQMD Rule 602 or the associated steamfield permit, then BRP shall with approval of the APCO, install and utilize additional abatement equipment as necessary to bring emissions into compliance. This may include, but is not limited to, immediate conversion to an injector, gas capping, down-hole plugging, and/or the complete closing in of any well in violation of LCAQMD Rules and Regulations.
- E. BRP shall utilize the same particulate abatement system described in the permitting review(s) and includes the following configuration: 1) A non-constricting venturi in the smallest diameter portion of the blooie line (non-constricting venturi 12"-15") for use when flow of at least 20,000 lbs/hr air/steam and a converging venturi scrubber when

(Conditions 2 through 6 are continued on the back of this card)

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PERMIT TO OPERATE

Lake County Air Quality Management District

2617 S. Main Street, Lakeport, CA 95453 (707) 263-7000, Fax (707) 263-0421

Permit # P/O 85-030A

By: Douglas G. Gearhart
Douglas G. Gearhart, APCO

Type of Issuance: Renewal Issuance Date: 10/31/2025 Valid through: 10/31/2026 Category: IV

Operations under this permit must be conducted in compliance with all specifications and data included with the application under which this permit was issued. Equipment must be properly maintained and kept in good condition at all times. Post this permit or a facsimile (with conditions) in a conspicuous location on or near the equipment.

Contact: Ms. Susan Petty
Owner: Bottle Rock Power, LLC
Mailing: c/o AltaRock Energy, Inc.
Address: P.O. Box 31205
Seattle, WA 98103-8099

Facility: Francisco Padsite
Location: 400m S of N, 310m E of W, Sections 5, T11N,
R8W, MDB&M, Lake County
Francisco Pad, Francisco / Bottle Rock
Leasehold, Cobb Valley, CA

Name and Equipment Description: **Francisco 3-5**

One (1) geothermal production well, associated valving, condensate and rock removal (catcher) and bleed muffler servicing the Bottle Rock Geothermal Power Plant.

Permit Conditions

Condition 1 The herein permitted well shall be operated in compliance and consistent with the steam transmission and power plant Authority to Construct (A/C) and Permit to Operate (P/O) conditions where applicable. The herein permitted well shall be operated in compliance with all Lake County Air Quality Management District (LCAQMD), State, and Federal laws and regulations.

Condition 2 Bottle Rock Power, LLC (BRP) shall notify the LCAQMD at least twenty-four (24) hours prior to initiating the planned venting of any well or group of wells in the LCAQMD owned or operated by BRP in an amount in excess of either 3,000 lbs of steam per hour per well or 20,000 lbs of steam per hour total. Testing to characterize emissions may be required by the Air Pollution Control Officer (APCO) for significant well bleeds or vents. In the event source testing of any geothermal well is deemed necessary by the APCO, BRP will provide safe access and sampling ports.

Condition 3 BRP shall submit to the LCAQMD an application for, and receive, an A/C or modify permit prior to constructing, erecting, altering or replacing any equipment which may cause, potentially cause, reduce, control or eliminate the issuance of air contaminants. This does not include normal and routine maintenance nor well clean out and repairs. It does include deepening, altering or increasing the well bore size in a manner to constitute a modification of the source. BRP shall notify the LCAQMD in advance of, and receive approval for, any planned reworking/maintenance of any of the herein permitted production wells. Conditions for approval of such maintenance work will consider the level and duration of emissions, and the conditions incorporated in current BRP A/C permits and performance plans. BRP shall within thirty (30) days after the completion of re-drilling, reworking or flow testing submit to the LCAQMD the results of any routine or required chemical analysis and/or testing accomplished for the herein listed geothermal development wells that indicate emissions or potential emissions into the air.

(Conditions 4 through 12 are continued on the back of this card)

THIS PERMIT BECOMES VOID UPON CHANGE OF OWNERSHIP OR LOCATION

This permit does not authorize the emission of air contaminants in excess of those allowed by the California Health and Safety Code or the Regulations of the Lake County Air Quality Management District. This permit cannot be considered permission to violate existing laws, ordinances, regulations, or statutes of other government agencies. The provisions of this Permit are severable. If any provision of this Permit is held invalid, the remainder of this Permit shall not be affected thereby.



AUTHORITY TO CONSTRUCT

Lake County Air Quality Management District

2617 S. Main Street, Lakeport, CA 95453 (707) 263-7000, Fax (707) 263-0421

Permit # A/C 2014-09

By: Douglas G. Gearhart
Douglas G. Gearhart, APCO

Type of Issuance: Renewal Issuance Date: 10/31/2025 Valid through: 10/31/2026 Category: IV

Operations under this permit must be conducted in compliance with all specifications and data included with the application under which this permit was issued. Equipment must be properly maintained and kept in good condition at all times. Post this permit or a facsimile (with conditions) in a conspicuous location on or near the equipment.

Contact: Ms. Susan Petty
Owner: Bottle Rock Power, LLC
Mailing: c/o AltaRock Energy, Inc.
Address: P.O. Box 31205
Seattle, WA 98103-8099

Facility: Francisco Padsite
Location: 400m S of N, 310m E of W, Sections 5, T11N,
R8W, MDB&M, Lake County
Francisco Pad, Francisco / Bottle Rock
Leasehold, Cobb Valley, CA

Name and Equipment Description: Francisco 4-5

One (1) geothermal production/injection well, associated valving, condensate and rock removal (catcher), and bleed muffler servicing the Bottle Rock Geothermal Power Plant.

Permit Conditions

Condition 1: Emissions

- A. Bottle Rock Power, LLC (BRP) shall limit Hydrogen Sulfide (H₂S) emissions during drilling, clean out, and testing to no more than five (5) pounds of H₂S per hour and no more than twenty-four (24) pounds per day during all other phases of this project. During verified breakdown and for hot-liner installations, Lake County Air Quality Management District (LCAQMD) Rule 510 and procedures shall apply. In the event of atmospheric conditions (e.g., drainage, limited mixing, fumigation, downwash, etc.) that result in complaints and concern in receptor areas from high levels of H₂S, BRP agrees to reduce the H₂S emission limit to two (2) pounds or less of H₂S per hour, consistent with the BRP H₂S Abatement Plan, at the request of the Air Pollution Control Officer (APCO). Certain exceptions to the H₂S emission limitations may be allowed by the APCO, in writing, for resource testing if such tests are 12 hours or less in duration and coincide with acceptable meteorological conditions verified by the APCO to ensure good dispersion.
- B. If excessively high H₂S levels are encountered during drilling, BRP will either: a) Place into operation additional H₂S abatement capacity, or b) Cease operation and close in the well according to appropriate standards of operation. For the purposes of this permit, excessively high levels of H₂S means abated emissions greater than five (5) pounds of H₂S per hour or abated emission levels in excess of 500 ppm volume.
- C. Visible emissions shall not exceed the values listed below for more than three (3) minutes in any one (1) hour: • Ringelmann 0.5 (10% opacity) for detached plume at the cyclone; • Ringelmann 0.5 (10% opacity) for combustion emissions engine exhaust; and • Ringelmann 1 (20% opacity) for road and pad dust emissions.
- D. On commencement of air drilling in significant serpentine or upon experiencing red/pink plume exiting the cyclone, the well logger shall immediately obtain bulk samples of the drilled material and log the event in the abatement logbook, and shall be analyzed for asbestos content using TEM, SEM or PLM (California Air Resources Board [ARB] Method 435 Procedures). "Experiencing a pink/red plume" shall mean a plume of greater than 5% opacity lasting for 30 or more seconds. For the purpose of defining a significant serpentine deposit during geothermal air drilling: "Significant Serpentine" shall mean; drill cutting samples from two consecutive ten-foot interval-drilling sections identified as having 10% or greater serpentine content. The LCAQMD shall be promptly notified by phone at 263-7000, provided a portion of the divided bulk samples of the drilled material, and unless otherwise agreed upon in writing, notified of the bulk asbestos analysis results within ten (10) working days of sampling. Bulk Samples collected upon experiencing a pink/red plume shall be promptly analyzed by XRF, or other acceptable means, to include at a minimum arsenic, chrome, nickel and cadmium. BRP shall, to the extent practical attempt to collect a sample of the particulate from the pink/red plume, and/or assist the LCAQMD in such an attempt, for analysis as described.
- E. During drilling in significant serpentine, or while experiencing a pink/red plume, visible emissions shall not exceed Ringelmann 0.25 (5% opacity) for detached plume at the cyclone. BRP shall: 1) Increase down hole misting; 2) Increase water loading at the venturi; 3) Reducing the drilling rate; 4) Use wetting agents; and/or 5) Implement additional solids filtration of working water. Such additional effort shall continue until drilling is clear of significant serpentine or drilling conditions contributing to the formation of pink/red plume.

Condition 2: Administrative

- A. This permit has been issued for the geothermal well to function in either injection or production mode. The well is constructed at a total depth of 9,901 feet and includes a well bore, well head, valving, piping, flanges, geothermal fluid transmission line header connections, side leg kick-out, two part slotted liner, and associated corrosion mitigation injection equipment. This permit does not establish a precedent for the issuance of additional permits.
- B. The submitted BRP H₂S abatement plan approved by the APCO or subsequent approved revision, shall be implemented and followed, and is incorporated herein by reference. Logbook entries shall be made a minimum of four (4) times daily.
- C. Diesel fuel utilized shall be California Low Sulfur Diesel containing less than 15 ppmw sulfur.
- D. If a vapor dominated resource is encountered and it is determined that emissions cannot be maintained pursuant to Parts A & B of LCAQMD Rule 421; or the APCO determines that the well on stand-by (bleed) status will violate the intent of LCAQMD Rule 602, then BRP shall with approval of the APCO, install and utilize additional abatement equipment as necessary to bring emissions into compliance. This may include, but is not limited to, immediate conversion to an injector, gas capping, down-hole plugging, and/or the complete closing in of any well in violation of LCAQMD Rules and Regulations.

(Conditions 2 through 6 are continued on the back of this card)

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PERMIT TO OPERATE

Lake County Air Quality Management District

2617 S. Main Street, Lakeport, CA 95453 (707) 263-7000, Fax (707) 263-0421

Permit # P/O 86-074A

By: Douglas G. Gearhart
Douglas G. Gearhart, APCO

Type of Issuance: Renewal Issuance Date: 10/31/2025 Valid through: 10/31/2026 Category: IV

Operations under this permit must be conducted in compliance with all specifications and data included with the application under which this permit was issued. Equipment must be properly maintained and kept in good condition at all times. Post this permit or a facsimile (with conditions) in a conspicuous location on or near the equipment.

Contact: Ms. Susan Petty
Owner: Bottle Rock Power, LLC
Mailing: c/o AltaRock Energy, Inc.
Address: P.O. Box 31205
Seattle, WA 98103-8099

Facility: Francisco Padsite
Location: 400m S of N, 310m E of W, Sections 5, T11N,
R8W, MDB&M, Lake County
Francisco Pad, Francisco / Bottle Rock
Leasehold, Cobb Valley, CA

Name and Equipment Description: **Francisco 5-5**

One (1) geothermal production well, associated valving, condensate and rock removal (catcher) and bleed muffler servicing the Bottle Rock Geothermal Power Plant.

Permit Conditions

Condition 1 The herein permitted well shall be operated in compliance and consistent with the steam transmission and power plant Authority to Construct (A/C) and Permit to Operate (P/O) conditions where applicable. The herein permitted well shall be operated in compliance with all Lake County Air Quality Management District (LCAQMD), State, and Federal laws and regulations.

Condition 2 Bottle Rock Power, LLC (BRP) shall notify the LCAQMD at least twenty-four (24) hours prior to initiating the planned venting of any well or group of wells in the LCAQMD owned or operated by BRP in an amount in excess of either 3,000 lbs of steam per hour per well or 20,000 lbs of steam per hour total. Testing to characterize emissions may be required by the Air Pollution Control Officer (APCO) for significant well bleeds or vents. In the event source testing of any geothermal well is deemed necessary by the APCO, BRP will provide safe access and sampling ports.

Condition 3 BRP shall submit to the LCAQMD an application for, and receive, an A/C or modify permit prior to constructing, erecting, altering or replacing any equipment which may cause, potentially cause, reduce, control or eliminate the issuance of air contaminants. This does not include normal and routine maintenance nor well clean out and repairs. It does include deepening, altering or increasing the well bore size in a manner to constitute a modification of the source. BRP shall notify the LCAQMD in advance of, and receive approval for, any planned reworking/maintenance of any of the herein permitted production wells. Conditions for approval of such maintenance work will consider the level and duration of emissions, and the conditions incorporated in current BRP A/C permits and performance plans. BRP shall within thirty (30) days after the completion of re-drilling, reworking or flow testing submit to the LCAQMD the results of any routine or required chemical analysis and/or testing accomplished for the herein listed geothermal development wells that indicate emissions or potential emissions into the air.

(Conditions 4 through 12 are continued on the back of this card)

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AUTHORITY TO CONSTRUCT

Lake County Air Quality Management District
2617 S. Main Street, Lakeport, CA 95453 (707) 263-7000, Fax (707) 263-0421

Permit # A/C 86-041A

By: Douglas G. Gearhart
Douglas G. Gearhart, APCO

Type of Issuance: Renewal Issuance Date: 10/31/2025 Valid through: 10/31/2026 Category: IV

Operations under this permit must be conducted in compliance with all specifications and data included with the application under which this permit was issued. Equipment must be properly maintained and kept in good condition at all times. Post this permit or a facsimile (with conditions) in a conspicuous location on or near the equipment.

Contact: Ms. Susan Petty
Owner: Bottle Rock Power, LLC
Mailing: c/o AltaRock Energy, Inc.
Address: P.O. Box 31205
Seattle, WA 98103-8099

Facility: Francisco Padsite
Location: 400m S of N, 310m E of W, Sections 5, T11N,
R8W, MDB&M, Lake County
Francisco Pad, Francisco / Bottle Rock
Leasehold, Cobb Valley, CA

Name and Equipment Description: Francisco 6-5

One (1) geothermal production well, associated valving, condensate and rock removal (catcher) and bleed muffler servicing the Bottle Rock Geothermal Power Plant.

Permit Conditions

Condition 1 Bottle Rock Power, LLC (BRP) shall perform and forward to the Lake County Air Quality Management District (LCAQMD), the following characterization of hot water, steam, particulates and/or gases emanating from the subject well(s) within sixty (60) days after completion of the initial geothermal drilling and testing. If the well is abandoned, no analyses will be necessary.

STEAM CONDENSATE/TOTAL STEAM: Benzene, Ammonium (total)*, Arsenic*, Bicarbonate and Carbonate, Sulfates, Chlorides, Nitrates, Boron (total)*, Hydrogen Sulfide (H₂S) (total)*, Fluorides (total), Mercury (total), pH, Total Dissolved Solids, Total Suspended Solids, Percent Non-Condensables, and Steam Flow and Temperature*.

GAS PHASE: Benzene, Particulate in Steam (ug particulate/g of Steam, Arsenic, Lead, Cadmium, Total Sulfur, Boron), Ammonia, Mercury Vapor, Radon 222 and Daughters, Methane, Non-Methane Hydrocarbons, Carbon Dioxide, and NESHAPS pollutants as requested. Tests can be performed utilizing the bleed of the subject well(s) or during flow testing. Gas phase (non-condensables or steam diluted with air as appropriate to maintain gas phase and integrity of sample) tests are to be performed if wells are placed on long term standby bleed. The test protocol shall be submitted to the LCAQMD at least three (3) weeks before such sample collection and analytical testing is planned and shall be approved by the LCAQMD prior to actual source testing. If the well is produced immediately, the LCAQMD may delay required testing (specifically those items without an asterisk) until circumstances require a sustained bleed status of the well, this shall be at the LCAQMD's option and BRP's request.

Condition 2 BRP shall notify the LCAQMD at least twenty-four (24) hours prior to initiating the planned venting of the herein permitted well or any associated group of well(s) in the LCAQMD owned or operated by BRP.

Condition 3 In the event source testing of the herein permitted geothermal well is deemed necessary by the Air Pollution Control Officer (APCO), BRP will be available within ten (10) days after written notice to open said well for a 4-8 hour duration.

Condition 4 If chemical or particulate analysis performed as part of Condition 1 suggests the need for further study, including air dispersion analysis, BRP will assist, perform or finance such studies if deemed reasonable and necessary by the APCO.

Condition 5 If locks or unmanned gates are used to secure the project area, the LCAQMD or its representative, will be given keys or combinations and

(Conditions 5 through 19 are continued on the back of this card)

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AUTHORITY TO CONSTRUCT

Lake County Air Quality Management District
2617 S. Main Street, Lakeport, CA 95453 (707) 263-7000, Fax (707) 263-0421

Permit # A/C 86-042A

By: Douglas G. Gearhart
Douglas G. Gearhart, APCO

Type of Issuance: Renewal Issuance Date: 10/31/2025 Valid through: 10/31/2026 Category: IV

Operations under this permit must be conducted in compliance with all specifications and data included with the application under which this permit was issued. Equipment must be properly maintained and kept in good condition at all times. Post this permit or a facsimile (with conditions) in a conspicuous location on or near the equipment.

Contact: Ms. Susan Petty
Owner: Bottle Rock Power, LLC
Mailing: c/o AltaRock Energy, Inc.
Address: P.O. Box 31205
Seattle, WA 98103-8099

Facility: Francisco Padsite
Location: 400m S of N, 310m E of W, Sections 5, T11N,
R8W, MDB&M, Lake County
Francisco Pad, Francisco / Bottle Rock
Leasehold, Cobb Valley, CA

Name and Equipment Description: Francisco 7-5

One (1) geothermal production well, associated valving, condensate and rock removal (catcher) and bleed muffler servicing the Bottle Rock Geothermal Power Plant.

Permit Conditions

Condition 1 Bottle Rock Power, LLC (BRP) shall perform and forward to the Lake County Air Quality Management District (LCAQMD), the following characterization of hot water, steam, particulates and/or gases emanating from the subject well(s) within sixty (60) days after completion of the initial geothermal drilling and testing. If the well is abandoned, no analyses will be necessary.

STEAM CONDENSATE/TOTAL STEAM: Benzene, Ammonium (total)*, Arsenic*, Bicarbonate and Carbonate, Sulfates, Chlorides, Nitrates, Boron (total)*, Hydrogen Sulfide (H₂S) (total)*, Fluorides (total), Mercury (total), pH, Total Dissolved Solids, Total Suspended Solids, Percent Non-Condensables, and Steam Flow and Temperature*.

GAS PHASE: Benzene, Particulate in Steam (ug particulate/g of Steam, Arsenic, Lead, Cadmium, Total Sulfur, Boron), Ammonia, Mercury Vapor, Radon 222 and Daughters, Methane, Non-Methane Hydrocarbons, Carbon Dioxide, and NESHAPS pollutants as requested. Tests can be performed utilizing the bleed of the subject well(s) or during flow testing. Gas phase (non-condensables or steam diluted with air as appropriate to maintain gas phase and integrity of sample) tests are to be performed if wells are placed on long term standby bleed. The test protocol shall be submitted to the LCAQMD at least three (3) weeks before such sample collection and analytical testing is planned and shall be approved by the LCAQMD prior to actual source testing. If the well is produced immediately, the LCAQMD may delay required testing (specifically those items without an asterisk) until circumstances require a sustained bleed status of the well, this shall be at the LCAQMD's option and BRP's request.

Condition 2 BRP shall notify the LCAQMD at least twenty-four (24) hours prior to initiating the planned venting of the herein permitted well or any associated group of well(s) in the LCAQMD owned or operated by BRP.

Condition 3 In the event source testing of the herein permitted geothermal well is deemed necessary by the Air Pollution Control Officer (APCO), BRP will be available within ten (10) days after written notice to open said well for a 4-8 hour duration.

Condition 4 If chemical or particulate analysis performed as part of Condition 1 suggests the need for further study, including air dispersion analysis, BRP will assist, perform or finance such studies if deemed reasonable and necessary by the APCO.

Condition 5 If locks or unmanned gates are used to secure the project area, the LCAQMD or its representative, will be given keys or combinations and

(Conditions 5 through 19 are continued on the back of this card)

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AUTHORITY TO CONSTRUCT

Lake County Air Quality Management District

2617 S. Main Street, Lakeport, CA 95453 (707) 263-7000, Fax (707) 263-0421

Permit # A/C 2008-28

By: Douglas G. Gearhart
Douglas G. Gearhart, APCO

Type of Issuance: Renewal Issuance Date: 10/31/2025 Valid through: 10/31/2026 Category: IV

Operations under this permit must be conducted in compliance with all specifications and data included with the application under which this permit was issued. Equipment must be properly maintained and kept in good condition at all times. Post this permit or a facsimile (with conditions) in a conspicuous location on or near the equipment.

Contact: Ms. Susan Petty
Owner: Bottle Rock Power, LLC
Mailing: c/o AltaRock Energy, Inc.
Address: P.O. Box 31205
Seattle, WA 98103-8099

Facility: Francisco Padsite
Location: 400m S of N, 310m E of W, Sections 5, T11N,
R8W, MDB&M, Lake County
Francisco Pad, Francisco / Bottle Rock
Leasehold, Cobb Valley, CA

Name and Equipment Description: Francisco 9-5

Geothermal drilling rig and accessories (ThermaSource Rig # 108 or equivalent), three (3) electrical generators (1101 Hp CAT 3512 turbocharged PERP registered diesel engines), one (1) top drive engine (1205Hp Detroit diesel model R1638K40 turbocharged and after-cooled, PERP registered diesel engine), three (3) air compressors (717 Hp CAT 900 series turbocharged and after-cooled, diesel PERP registered engines), one (1) air compressor (700 Hp CAT C-18 turbocharged and after-cooled, PERP registered diesel engine), one (1) down hole misting pump (110 Hp Cummins QSB4.5 turbocharged PERP registered diesel engine); H2S abatement system utilizing high pressure injection of NaOH and H2O2; drawdown chemical flow metering devices; particulate control equipment consisting of misting down hole, constricting and non constricting venturi contactors, low pressure water spray, expanding blooie line, properly sized, smoothed, tangential wet cyclone, water treatment and management systems, and metering and measuring devices and associated equipment.

Permit Conditions

Condition 1: Emissions

- A. Bottle Rock Power, LLC (BRP) shall limit Hydrogen Sulfide (H2S) emissions during drilling, clean out, and testing to no more than five (5) pounds of H2S per hour and no more than twenty-four (24) pounds per day during all other phases of this project. During verified breakdown and for hot-liner installations, Lake County Air Quality Management District (LCAQMD) Rule 510 and procedures shall apply. In the event of atmospheric conditions (e.g., drainage, limited mixing, fumigation, downwash, etc.) that result in complaints and concern in receptor areas from high levels of H2S, BRP agrees to reduce the H2S emission limit to two (2) pounds or less of H2S per hour consistent with the BRP H2S Abatement Plan, at the request of the Air Pollution Control Officer (APCO). Certain exceptions to the H2S emission limitations may be allowed by the APCO, in writing, for resource testing if such tests are 12 hours or less in duration and coincide with acceptable meteorological conditions verified by the APCO to ensure good dispersion.
- B. If excessively high H2S levels are encountered during drilling, BRP will either: a) Place into operation additional H2S abatement capacity, or b) Cease operation and close in the well according to appropriate standards of operation. For the purposes of this permit, excessively high levels of H2S means abated emissions greater than five (5) pounds of H2S per hour or abated emission levels in excess of 500 ppm volume.
- C. Visible emissions shall not exceed the values listed below for more than three (3) minutes in any one (1) hour: • Ringelmann 0.5 (10% opacity) for detached plume at the cyclone; • Ringelmann 0.5 (10% opacity) for combustion emissions engine exhaust; and • Ringelmann 1 (20% opacity) for road and pad dust emissions.
- D. On commencement of air drilling in significant serpentine or upon experiencing red/pink plume exiting the cyclone, the well logger shall immediately obtain bulk samples of the drilled material and log the event in the abatement logbook, and shall be analyzed for asbestos content using TEM, SEM or PLM (California Air Resources Board [ARB] Method 435 Procedures). "Experiencing a pink/red plume" shall mean a plume of greater than 5% opacity lasting for 30 or more seconds. For the purpose of defining a significant serpentine deposit during geothermal air drilling: "Significant Serpentine" shall mean; drill cutting samples from two consecutive ten-foot interval-drilling sections identified as having 10% or greater serpentine content. The LCAQMD shall be promptly notified by phone at 263-7000, provided a portion of the divided bulk samples of the drilled material, and unless otherwise agreed upon in writing, notified of the bulk asbestos analysis results within ten working days of sampling. Bulk Samples collected upon experiencing a pink/red plume shall be promptly analyzed by XRF, or other acceptable means, to include at a minimum arsenic, chrome, nickel and cadmium. BRP shall, to the extent practical attempt to collect a sample of the particulate from the pink/red plume, and/or assist the LCAQMD in such an attempt, for analysis as described.
- E. During drilling in significant serpentine, or while experiencing a pink/red plume, visible emissions shall not exceed Ringelmann 0.25 (5% opacity) for detached plume at the cyclone. BRP shall: 1) Increase down hole misting; 2) Increase water loading at the venturi; 3) Reducing the drilling rate; 4) Use wetting agents; and/or 5) Implement additional solids filtration of working water. Such additional effort shall continue until drilling is clear of significant serpentine or drilling conditions contributing to the formation of pink/red plume.

Condition 2: Administrative

- A. This permit has been issued for the construction of a geothermal production well to a total depth of 11,000 feet and includes a well bore, well head, valving, piping, flanges, geothermal fluid transmission line header connections, side leg kick-out, two part slotted liner, and associated corrosion mitigation injection equipment. This permit does not establish a precedent for the issuance of additional permits.
- B. The submitted BRP H2S abatement plan approved by the APCO or subsequent approved revision, shall be implemented and followed, and is incorporated herein by reference. Logbook entries shall be made a minimum of four (4) times daily.

(Conditions 2 through 6 are continued on the back of this card)

THIS PERMIT BECOMES VOID UPON CHANGE OF OWNERSHIP OR LOCATION

This permit does not authorize the emission of air contaminants in excess of those allowed by the California Health and Safety Code or the Regulations of the Lake County Air Quality Management District. This permit cannot be considered permission to violate existing laws, ordinances, regulations, or statutes of other government agencies. The provisions of this Permit are severable. If any provision of this Permit is held invalid, the remainder of this Permit shall not be affected thereby.



PERMIT TO OPERATE

Lake County Air Quality Management District

2617 S. Main Street, Lakeport, CA 95453 (707) 263-7000, Fax (707) 263-0421

Permit # P/O 2014-09

By: Douglas G. Gearhart
Douglas G. Gearhart, APCO

Type of Issuance: Renewal Issuance Date: 10/31/2025 Valid through: 10/31/2026 Category: II

Operations under this permit must be conducted in compliance with all specifications and data included with the application under which this permit was issued. Equipment must be properly maintained and kept in good condition at all times. Post this permit or a facsimile (with conditions) in a conspicuous location on or near the equipment.

Contact: Ms. Susan Petty
Owner: Bottle Rock Power, LLC
Mailing c/o AltaRock Energy, Inc.
Address: P.O. Box 31205
Seattle, WA 98103-8099

Facility: Bottle Rock Power Plant
Location: Bottle Rock Power Steamfield Storage Yard
7557 High Valley Rd.
Cobb, CA 95426

Name and Equipment Description: Gasoline and/or Diesel Dispensing Facility

One (1) ConVault above ground split storage tank (500 gallons unleaded and 500 gallons diesel). Phase I vapor recovery: pressure/vacuum (P/V) vent (make Husky, model 5885), 11 ft. Phase II vapor recovery: One (1) diesel dispenser and one (1) unleaded dispenser (make Fillrite, model 305AST), two (2) nozzles (make Husky, model H5010), and two (2) hoses (make Dayco, model DL 509).

Permit Conditions

Condition 1: Emissions

- A. The Phase I vapor recovery system shall be properly connected and utilized during all storage tank filling operations.
- B. The Phase II vapor recovery system shall be properly connected and utilized during all vehicle fueling.
- C. Bottle Rock Power, LLC (BRP) shall maintain all equipment in good working order pursuant to manufacturer's guidelines and applicable California Air Resources Board (ARB) certification, and operate in a manner to prevent or minimize air emissions and gasoline leaks.
- D. BRP shall immediately correct any gasoline or vapor leak, and all equipment breakdowns shall be reported to the Lake County Air Quality Management District (LCAQMD) pursuant to Section 510, LCAQMD Rules and Regulations.

Condition 2: Administrative

- A. This permit has been issued for the purpose of on site fuel dispensing (no fuel sales), with annual use not to exceed 50,000 gallons.
- B. The Phase I vapor recovery system installed on the storage tank(s) shall meet the certification requirements of the ARB.
- C. The Phase II vapor recovery system shall be maintained to meet ARB certification requirements.
- D. All gasoline storage tanks shall have submerged drop tube/fill pipes terminating a maximum of 6" from the tank bottom.

(Conditions 2 through 6 are continued on the back of this card)

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AUTHORITY TO CONSTRUCT

Lake County Air Quality Management District

2617 S. Main Street, Lakeport, CA 95453 (707) 263-7000, Fax (707) 263-0421

Permit # A/C 2010-14

By: *Douglas G. Gearhart*
Douglas G. Gearhart, APCO

Type of Issuance: Renewal Issuance Date: 10/31/2025 Valid through: 10/31/2026 Category: Vb

Operations under this permit must be conducted in compliance with all specifications and data included with the application under which this permit was issued. Equipment must be properly maintained and kept in good condition at all times. Post this permit or a facsimile (with conditions) in a conspicuous location on or near the equipment.

Contact: Ms. Susan Petty
Owner: Bottle Rock Power, LLC
Mailing: c/o AltaRock Energy, Inc.
Address: P.O. Box 31205
Seattle, WA 98103-8099

Facility: Bottle Rock Facility
Location: Sections 5&6, T11N, R8W, MDB&M, Lake
County
Bottle Rock / Francisco Leasehold, Cobb Valley,
CA

Name and Equipment Description: Steam Transmission Line

One (1) geothermal fluid collection line, associated valving, condensate collection including re-injection line, and steam release abatement system with particulate and H₂S removal servicing the Bottle Rock Geothermal Power Plant and one (1) 2002 78hp John Deere Backhoe Loader EIN #MM5E57. Francisco Pad: one (1) 6,200 gallon vent tank, one (1) 1,500 gallon vent tank, one (1) TECO-Westinghouse (or equivalent) 20 hp electric motor, one (1) 500 gpm Gorman-Rupp (or equivalent) pump, Associated piping, instrumentation, and valves. Coleman Pad: one (1) 1,500 gallon vent tank, up to two (2) 20,000 gallon Baker tanks, one (1) TECO-Westinghouse (or equivalent) 20 hp electric motor, one (1) 500 gpm Gorman-Rupp (or equivalent) pump, associated piping, instrumentation, and valves. West Coleman Pad: one (1) 6,200 gallon vent tank, one (1) 1,500 gallon vent tank, associated piping, instrumentation, and valves.

Permit Conditions

Condition 1: Emissions

A. Condensate bleeds shall be opened and utilized only as necessary during cold start-up of the geothermal fluid transmission line. Other bleeds necessitated by continuous normal operation of this line shall total less than 0.3 lbs hydrogen sulfide (H₂S) per hour during any one hour. If necessary, abatement systems shall be installed and/or utilized to ensure fugitive H₂S emissions of less than 0.3 lbs/hr.

B. Abatement equipment to be utilized and available to prevent venting of air pollutants into the ambient air shall include an Emergency Stacking H₂S Abatement System* capable of treating 100% of the total steam flow delivered through the transmission line; a by-pass to the surface condenser of the serviced power plant and abatement to the same level of emissions as required of the power plant; and the ability to remotely and within minutes cut back steam flow to not more than 50% of full steam flow. All abatement facilities shall be used in series and individually as necessary to ensure that an emissions rate of not more than 5 lbs H₂S/hr is obtained.

* This abatement system is described in detail in a document entitled, Emergency Steam Stacking H₂S Abatement Study, Bottle Rock Steam Gathering System Final Report; February 1982, Job No. 52-3184-001 by Gibbs & Hill for MCR.

C. Dust emissions of three (3) minutes duration in any one (1) hour will be kept below 20% opacity by use of water, palliatives, or surfacing of roads, pads and parking areas during the construction and operation of condensate collection system modification.

D. In the event of generalized atmospheric conditions or localized dangerous contamination of such a nature as to constitute an emergency creating a danger to the health and welfare of the citizens of Lake County, the Lake County Air Quality Management District (LCAQMD) will take immediate action by requiring Bottle Rock Power, LLC (BRP) to reduce or discontinue air contaminant emissions immediately from fluid (steam) transmission lines. A hearing shall be held by the LCAQMD Hearing Board as soon as practical after such action has been taken to determine whether such reduction or discontinuance shall continue, and if so, under what conditions.

E. Steam stacking under normal operations shall be treated by the use of the turbine by-pass to power plant condenser and abated utilizing the power plant abatement system. A de-mister or water scrubber shall be used to ensure compliance with LCAQMD Rule 411 when venting directly downstream and utilizing the steam stacking emergency abatement system.

F. When the total accumulative emissions from this development project during construction reach the five (5) pounds per hour level, or public nuisance issues be validated, BRP shall, at the request of the Air Pollution Control Officer (APCO), assist in obtaining funding to install and maintain, or fund the LCAQMD to install and maintain, an air quality monitoring site (H₂S, wind direction, wind speed, temperature) to assist the LCAQMD in determining compliance and the validity of emission limitations as set forth in these conditions.

G. Regarding the turbine by-pass to main condenser power plant abatement system, BRP shall, to the extent possible, work to incorporate reliable and proven valves, noise attenuation of the valving, and desuperheating of by-passed steam/or account for in the design of the system, to maintain the ability to

(Conditions 1 through 6 are continued on the back of this card)

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This permit does not authorize the emission of air contaminants in excess of those allowed by the California Health and Safety Code or the Regulations of the Lake County Air Quality Management District. This permit cannot be considered permission to violate existing laws, ordinances, regulations, or statutes of other government agencies. The provisions of this Permit are severable. If any provision of this Permit is held invalid, the remainder of this Permit shall not be affected thereby.



PERMIT TO OPERATE

Lake County Air Quality Management District

2617 S. Main Street, Lakeport, CA 95453 (707) 263-7000, Fax (707) 263-0421

Permit # P/O 2010-04

By: Douglas G. Gearhart
Douglas G. Gearhart, APCO

Type of Issuance: Renewal Issuance Date: 10/31/2025 Valid through: 10/31/2026 Category: IV

Operations under this permit must be conducted in compliance with all specifications and data included with the application under which this permit was issued. Equipment must be properly maintained and kept in good condition at all times. Post this permit or a facsimile (with conditions) in a conspicuous location on or near the equipment.

Contact: Ms. Susan Petty
Owner: Bottle Rock Power, LLC
Mailing: c/o AltaRock Energy, Inc.
Address: P.O. Box 31205
Seattle, WA 98103-8099

Facility: Bottle Rock Facility
Location: Sec 5, T11N, R8W, MDB&M Lake County
Francisco/Coleman Leasehold, Cobb Valley, CA

Name and Equipment Description: Steam Transmission Line Modifications

Three (3) gate valves on the Steam Transmission Line to provide full isolation of the Francisco Pad, West Coleman Pad, and Power Plant. Two (2) sets of steam wash nozzles, and associated pumps, valves, and piping, located upstream of the main steam separator. Variable speed chemical feed pumps on the emergency steam stacking emissions control system connected to the Distributed Control System.

Permit Conditions

Condition 1: These modifications were done to the previously existing geothermal fluid (steam) transmission pipeline, steam wash, and emergency steam stacking system servicing the Bottle Rock Power Plant; all other permits, associated conditions, and limitations are not modified. The pipeline shall be constructed and operated in a manner to not increase steam stacking during scheduled and unscheduled power generation or transmission line outages or during power plant startups and shutdowns of the unit. Equipment utilized and/or modified which is significantly different than that described in the permit application is subject to permit application and review.

Condition 2: Pipeline cleanout, testing and startup emissions shall be consistent with the submitted project application and minimized to the extent feasible. Bottle Rock Power, LLC (BRP) shall provide the Lake County Air Quality Management District (LCAQMD) seventy-two (72) hours advance notice of scheduled cleanout and testing operations and obtain prior Air Pollution Control Officer (APCO) approval for the date and time of emissions release or obtain a variance.

Condition 3: All drain water discharged shall be directed to the rich condensate collection and disposal line.

Condition 4: This permit does not modify or make less restrictive any emission limitation, reporting, and/or monitoring/testing requirements that presently exist for this facility.

Condition 5: BRP shall provide the LCAQMD, no less than thirty (30) days subsequent to installation of the herein authorized modification, with as-built drawings for the modification, including all steam or gas vent locations.

Condition 6: BRP shall provide safe access to sampling ports that enable representatives of the LCAQMD, California Air Resources Board, or Environmental Protection Agency to collect samples, as approved by the APCO, from the steam stacking muffler, condensate collection basins, or any point release of steam, gas, or emissions to the ambient air.

THIS PERMIT BECOMES VOID UPON CHANGE OF OWNERSHIP OR LOCATION

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AUTHORITY TO CONSTRUCT

Lake County Air Quality Management District
2617 S. Main Street, Lakeport, CA 95453 (707) 263-7000, Fax (707) 263-0421

Permit # A/C 90-001

By: Douglas G. Gearhart
Douglas G. Gearhart, APCO

Type of Issuance: Renewal Issuance Date: 10/31/2025 Valid through: 10/31/2026 Category: IV

Operations under this permit must be conducted in compliance with all specifications and data included with the application under which this permit was issued. Equipment must be properly maintained and kept in good condition at all times. Post this permit or a facsimile (with conditions) in a conspicuous location on or near the equipment.

Contact: Ms. Susan Petty
Owner: Bottle Rock Power, LLC
Mailing: c/o AltaRock Energy, Inc.
Address: P.O. Box 31205
Seattle, WA 98103-8099

Facility: West Coleman Padsite
Location: 640m N of S, 150m W of E, Section 6, T11N,
R8W, MDB&M, Lake County
Bottle Rock / Francisco Leasehold, Cobb Valley,
CA

Name and Equipment Description: W. Coleman 1-6 Re-Drill

One (1) geothermal production well, associated valving, condensate and rock removal (catcher) and bleed muffler servicing the Bottle Rock Geothermal Power Plant.

Permit Conditions

Condition 1 Bottle Rock Power, LLC (BRP) shall operate the proposed abatement system to limit emissions during drilling, initial clean out, and testing to a rate of no more than five (5.0) pounds of hydrogen sulfide (H₂S) per hour. Should atmospheric conditions result in nuisance complaints or H₂S monitoring at the Glenbrook monitoring station exceed 15 ppb, BRP shall limit emissions to no more than two (2) pounds H₂S per hour at the request of the Lake County Air Quality Management District (LCAQMD). Detached plume opacity shall be controlled to a 10% opacity by the injection of no less than 60 GPM and excessive splash over or carry through of drift shall be prevented by properly sizing a cyclone scrubber or other acceptable method. Should the well drilling encounter the condition described as "pink or red plume" during the air drilling, initial cleanout, or testing of the herein permitted geothermal well(s), BRP shall act promptly to enter such information into the abatement log book required as part of the performance plan and shall notify the LCAQMD within one (1) hour after such entry is made. BRP shall have posted on site with the permit, phone numbers of the LCAQMD office (263-7000) or Air Pollution Control Officer (APCO) (391-3232) for contact should such incident occur. BRP shall promptly install an improved blooie line water injection/cyclonic separator for the efficient abatement of high loading of small sized particulate (e.g. 0.5 to 5.0 micron). Said system shall be capable of a water injection capacity of a minimum of (400) GPM with as long a residence/contact time as is practicable. Alternate technological approached as proposed by BRP and approved by the APCO shall be allowed and encouraged, including a reduction in drilling rate and misting down hole.

Condition 2 Road, pad, and yard dust for three (3) minutes or more duration in any one (1) hour shall be kept below Ringelmann 0.5 at all times by making use of watering, palliatives, oiling/chip seal, or surfacing of raods used regularly. BRP shall perform or have performed, at LCAQMD request and by a LCAQMD approved method, geological sampling of serpentine exposures of the pad site and/or access road and provide analysis of the asbestos content of the material prior to the construction. BRP shall surface or otherwise cover and maintain all areas identified as containing significant amounts of asbestos which are subject to vehicular wear.

Condition 3 BRP shall promptly notify the LCAQMD in writing should they learn of or encounter conditions where toxic air emissions of concern from an occupational standpoint occur and which are allowed to disperse into the ambient air as a mitigation. BRP shall install, maintain, and operate a gas alarm at a location and as approved by the APCO.

Condition 4 The BRP H₂S abatement plan on file with the LCAQMD is accepted contingent upon changes incorporated herein and shall be followed and implemented. Entries made into an onsite log book shall occur a minimum of four (4) times daily once abatement is initiated, and entries shall be made in ink and signed by a responsible person in a format acceptable to the LCAQMD. The abatement equipment, an abatement performance plan, and log book shall be onsite prior to air drilling. The LCAQMD shall be promptly informed as to the responsible onsite person and location of the log book. The official

(Conditions 4 through 14 are continued on the back of this card)

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AUTHORITY TO CONSTRUCT

Lake County Air Quality Management District

2617 S. Main Street, Lakeport, CA 95453 (707) 263-7000, Fax (707) 263-0421

Permit # A/C 2005-46

By: *Douglas G. Gearhart*
Douglas G. Gearhart, APCO

Type of Issuance: Renewal Issuance Date: 10/31/2025 Valid through: 10/31/2026 Category: IV

Operations under this permit must be conducted in compliance with all specifications and data included with the application under which this permit was issued. Equipment must be properly maintained and kept in good condition at all times. Post this permit or a facsimile (with conditions) in a conspicuous location on or near the equipment.

Contact: Ms. Susan Petty
Owner: Bottle Rock Power, LLC
Mailing: c/o AltaRock Energy, Inc.
Address: P.O. Box 31205
Seattle, WA 98103-8099

Facility: West Coleman Padsite
Location: West Coleman 2-6, located on Bottle Rock West Coleman Padsite (1155m So. & 134.9m W of the NE Corner Section 6, T11N, R8W, MDB&M, Lake County, N 397,334 E 1,797,546)

Name and Equipment Description: W. Coleman 2-6 Re-Drill

Geothermal drilling rig and accessories (NCPA Rig #1), Four electrical generators (CAT D-398TA 750 HP diesel engines PERP Registered), three air compressors (Cummins QSK19-C700 700 HP turbocharged diesel-powered air compressors PERP Registered), one down hole misting pump; hydrogen sulfide abatement system utilizing high pressure injection of NaOH and H₂O₂; and particulate control equipment consisting of misting down hole, constricting and non constricting venturi contactors, low pressure water spray, expanding blooie line, properly sized, smoothed, tangential wet cyclone, properly designed drop or hopper, water treatment and management systems, necessary metering and measuring devices and associated equipment.

Permit Conditions

Condition 1: Emissions

- A. Bottle Rock Power, LLC (BRP) shall limit hydrogen sulfide (H₂S) emissions during drilling, clean out, and testing to no more than five (5) pounds of H₂S per hour and no more than twenty-four (24) pounds per day during all other phases of this project. During verifiable breakdown and for any hot-liner runs, Rule 510 and procedures shall apply. In the event of atmospheric conditions (e.g., drainage, limited mixing, fumigation, downwash, etc.) that result in complaints and concern in receptor areas from high levels of H₂S, BRP agrees to reduce the H₂S emission limit to two (2) pounds of H₂S using abatement plan at the request of the Air Pollution Control Officer (APCO). Certain exceptions to the H₂S emission limitations may be allowed by the APCO, in writing, for resource testing if such tests are 12 hours or less in duration and coincide with acceptable meteorological conditions verified by the APCO to ensure good dispersion.
- B. If excessively high H₂S levels are encountered during drilling, BRP will either: 1) Place into operation additional H₂S abatement capacity, or 2) Cease operation and close in the well according to appropriate standards of operation. For the purposes of this permit, excessively high levels of H₂S means abated emissions greater than five (5) pounds of H₂S per hour or abated emission levels in excess of 500 ppmv.
- C. Visible emissions shall not exceed the values listed below for more than three (3) minutes in any one (1) hour: • Ringelmann 0.5 (10% opacity) for detached plume at the cyclone; • Ringelmann 0.5 (10% opacity) for combustion emissions of engine exhaust; and • Ringelmann 1 (20% opacity) for road and pad dust emissions.
- D. On commencement of air drilling in significant serpentine, the well logger shall obtain bulk samples that shall be analyzed for asbestos content using TEM, SEM or PLM (California Air Resources Board [ARB] Method 435 Procedures). For the purpose of defining a significant serpentine deposit during geothermal air drilling: "Significant Serpentine" shall mean; drill cutting samples from two consecutive ten-foot interval-drilling sections identified as having 10% or greater serpentine or other asbestos-containing rock. The Lake County Air Quality Management District (LCAQMD) shall be promptly notified by phone at 263-7000, provided samples of the drilled material, and unless otherwise agreed upon in writing, notified of the bulk asbestos analysis results within ten working days of sampling.
- E. During drilling in significant serpentine visible emissions shall not exceed Ringelmann 0.25 (5% opacity) for detached plume at the cyclone. BRP shall: 1) Increase down hole misting; 2) Increase water loading at the venturi; 3) Reduce the drilling rate; 4) Use wetting agents; and/or 5) Implement additional solids filtration of working water. Such additional effort shall continue until drilling is clear of significant serpentine/asbestos.

Condition 2: Administrative

- A. This permit has been issued as a modification to include cleanout, forking or deepening of the well as described in the application and permit review. This permit does not establish a precedent for the issuance of additional permits.
- B. The submitted BRP (Tecton) H₂S abatement plan approved by the APCO shall be implemented and followed, and is incorporated herein by reference. Logbook entries shall be made a minimum of four (4) times daily while drilling on air or in steam.
- C. Diesel fuel utilized shall be California Low Sulfur Diesel containing less than 15ppmw sulfur.
- D. If a vapor-dominated resource is encountered and it is determined that emissions cannot be maintained pursuant to Parts A & B of LCAQMD Rule 421; or the APCO determines that the well on stand-by (bleed) status will violate the intent of LCAQMD Rule 602 or the associated steamfield permit, then BRP shall, with approval of the APCO, install and utilize additional abatement equipment as necessary to bring emissions into compliance. This may include, but is not limited to, immediate conversion to an injector, gas capping, down-hole plugging, and/or the complete closing in of any well in violation of LCAQMD Rules and Regulations.
- E. BRP shall utilize the particulate scrubbing system as substantially described in the permitting review and includes the following configuration: 1) A smooth expansion blooie line with low-pressure constricting and non-constricting interchangeable venturis with water injection for venturi contact/scrubbing. The non-constricting venturi

(Conditions 2 through 6 are continued on the back of this card)

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AUTHORITY TO CONSTRUCT

Lake County Air Quality Management District

2617 S. Main Street, Lakeport, CA 95453 (707) 263-7000, Fax (707) 263-0421

Permit # A/C 2005-47

By: Douglas G. Gearhart
Douglas G. Gearhart, APCO

Type of Issuance: Renewal Issuance Date: 10/31/2025 Valid through: 10/31/2026 Category: IV

Operations under this permit must be conducted in compliance with all specifications and data included with the application under which this permit was issued. Equipment must be properly maintained and kept in good condition at all times. Post this permit or a facsimile (with conditions) in a conspicuous location on or near the equipment.

Contact: Ms. Susan Petty
Owner: Bottle Rock Power, LLC
Mailing: c/o AltaRock Energy, Inc.
Address: P.O. Box 31205
Seattle, WA 98103-8099

Facility: West Coleman Padsite
Location: West Coleman 3-6, located on Bottle Rock West Coleman Padsite (1155m So. & 134.9m W of the NE Corner Section 6, T11N, R8W, MDB&M, Lake County, N 397,334 E 1,797,546)

Name and Equipment Description: W. Coleman 3-6 Re-Drill

Geothermal drilling rig and accessories (NCPA Rig #1), Four electrical generators (CAT D-398TA 750 HP diesel engines PERP Registered), three air compressors (Cummins QSK19-C700 700 HP turbocharged diesel-powered air compressors PERP Registered), one down hole misting pump; hydrogen sulfide abatement system utilizing high pressure injection of NaOH and H₂O₂; and particulate control equipment consisting of misting down hole, constricting and non constricting venturi contactors, low pressure water spray, expanding blooie line, properly sized, smoothed, tangential wet cyclone, properly designed drop or hopper, water treatment and management systems, necessary metering and measuring devices and associated equipment.

Permit Conditions

Condition 1: Emissions

- A. Bottle Rock Power, LLC (BRP) shall limit hydrogen sulfide (H₂S) emissions during drilling, clean out, and testing to no more than five (5) pounds of H₂S per hour and no more than twenty-four (24) pounds per day during all other phases of this project. During verifiable breakdown and for any hot-liner runs, Rule 510 and procedures shall apply. In the event of atmospheric conditions (e.g., drainage, limited mixing, fumigation, downwash, etc.) that result in complaints and concern in receptor areas from high levels of H₂S, BRP agrees to reduce the H₂S emission limit to two (2) pounds of H₂S using abatement plan at the request of the Air Pollution Control Officer (APCO). Certain exceptions to the H₂S emission limitations may be allowed by the APCO, in writing, for resource testing if such tests are 12 hours or less in duration and coincide with acceptable meteorological conditions verified by the APCO to ensure good dispersion.
- B. If excessively high H₂S levels are encountered during drilling, BRP will either: 1) Place into operation additional H₂S abatement capacity, or 2) Cease operation and close in the well according to appropriate standards of operation. For the purposes of this permit, excessively high levels of H₂S means abated emissions greater than five (5) pounds of H₂S per hour or abated emission levels in excess of 500 ppmv.
- C. Visible emissions shall not exceed the values listed below for more than three (3) minutes in any one (1) hour: • Ringelmann 0.5 (10% opacity) for detached plume at the cyclone; • Ringelmann 0.5 (10% opacity) for combustion emissions of engine exhaust; and • Ringelmann 1 (20% opacity) for road and pad dust emissions.
- D. On commencement of air drilling in significant serpentine, the well logger shall obtain bulk samples that shall be analyzed for asbestos content using TEM, SEM or PLM (California Air Resources Board [ARB] Method 435 Procedures). For the purpose of defining a significant serpentine deposit during geothermal air drilling: "Significant Serpentine" shall mean; drill cutting samples from two consecutive ten-foot interval-drilling sections identified as having 10% or greater serpentine or other asbestos-containing rock. The Lake County Air Quality Management District (LCAQMD) shall be promptly notified by phone at 263-7000, provided samples of the drilled material, and unless otherwise agreed upon in writing, notified of the bulk asbestos analysis results within ten working days of sampling.
- E. During drilling in significant serpentine visible emissions shall not exceed Ringelmann 0.25 (5% opacity) for detached plume at the cyclone. BRP shall: 1) Increase down hole misting; 2) Increase water loading at the venturi; 3) Reduce the drilling rate; 4) Use wetting agents; and/or 5) Implement additional solids filtration of working water. Such additional effort shall continue until drilling is clear of significant serpentine/asbestos.

Condition 2: Administrative

- A. This permit has been issued as a modification to include cleanout, forking or deepening of the well as described in the application and permit review. This permit does not establish a precedent for the issuance of additional permits.
- B. The submitted BRP (Tecton) H₂S abatement plan approved by the APCO shall be implemented and followed, and is incorporated herein by reference. Logbook entries shall be made a minimum of four (4) times daily while drilling on air or in steam.
- C. Diesel fuel utilized shall be California Low Sulfur Diesel containing less than 15ppmw sulfur.
- D. If a vapor-dominated resource is encountered and it is determined that emissions cannot be maintained pursuant to Parts A & B of LCAQMD Rule 421; or the APCO determines that the well on stand-by (bleed) status will violate the intent of LCAQMD Rule 602 or the associated steamfield permit, then BRP shall, with approval of the APCO, install and utilize additional abatement equipment as necessary to bring emissions into compliance. This may include, but is not limited to, immediate conversion to an injector, gas capping, down-hole plugging, and/or the complete closing in of any well in violation of LCAQMD Rules and Regulations.
- E. BRP shall utilize the particulate scrubbing system as substantially described in the permitting review and includes the following configuration: 1) A smooth expansion blooie line with low-pressure constricting and non-constricting interchangeable venturis with water injection for venturi contact/scrubbing. The non-constricting venturi

(Conditions 2 through 6 are continued on the back of this card)

THIS PERMIT BECOMES VOID UPON CHANGE OF OWNERSHIP OR LOCATION

This permit does not authorize the emission of air contaminants in excess of those allowed by the California Health and Safety Code or the Regulations of the Lake County Air Quality Management District. This permit cannot be considered permission to violate existing laws, ordinances, regulations, or statutes of other government agencies. The provisions of this Permit are severable. If any provision of this Permit is held invalid, the remainder of this Permit shall not be affected thereby.



AUTHORITY TO CONSTRUCT

Lake County Air Quality Management District

2617 S. Main Street, Lakeport, CA 95453 (707) 263-7000, Fax (707) 263-0421

Permit # A/C 2005-45

By: Douglas G. Gearhart
Douglas G. Gearhart, APCO

Type of Issuance: Renewal Issuance Date: 10/31/2025 Valid through: 10/31/2026 Category: IV

Operations under this permit must be conducted in compliance with all specifications and data included with the application under which this permit was issued. Equipment must be properly maintained and kept in good condition at all times. Post this permit or a facsimile (with conditions) in a conspicuous location on or near the equipment.

Contact: Ms. Susan Petty
Owner: Bottle Rock Power, LLC
Mailing: c/o AltaRock Energy, Inc.
Address: P.O. Box 31205
Seattle, WA 98103-8099

Facility: West Coleman Padsite
Location: West Coleman 4-6, located on Bottle Rock West Coleman Padsite (1155m So. & 134.9m W of the NE Corner Section 6, T11N, R8W, MDB&M, Lake County, N 397,334 E 1,797,546)

Name and Equipment Description: W. Coleman 4-6 Re-Drill

Geothermal drilling rig and accessories (NCPA Rig #1), Four electrical generators (CAT D-398TA 750 HP diesel engines PERP Registered), three air compressors (Cummins QSK19-C700 700 HP turbocharged diesel-powered air compressors PERP Registered), one down hole misting pump; hydrogen sulfide abatement system utilizing high pressure injection of NaOH and H₂O₂; and particulate control equipment consisting of misting down hole, constricting and non constricting venturi contactors, low pressure water spray, expanding blooie line, properly sized, smoothed, tangential wet cyclone, properly designed drop or hopper, water treatment and management systems, necessary metering and measuring devices and associated equipment.

Permit Conditions

Condition 1: Emissions

- A. Bottle Rock Power, LLC (BRP) shall limit hydrogen sulfide (H₂S) emissions during drilling, clean out, and testing to no more than five (5) pounds of H₂S per hour and no more than twenty-four (24) pounds per day during all other phases of this project. During verifiable breakdown and for any hot-liner runs, Rule 510 and procedures shall apply. In the event of atmospheric conditions (e.g., drainage, limited mixing, fumigation, downwash, etc.) that result in complaints and concern in receptor areas from high levels of H₂S, BRP agrees to reduce the H₂S emission limit to two (2) pounds of H₂S using abatement plan at the request of the Air Pollution Control Officer (APCO). Certain exceptions to the H₂S emission limitations may be allowed by the APCO, in writing, for resource testing if such tests are 12 hours or less in duration and coincide with acceptable meteorological conditions verified by the APCO to ensure good dispersion.
- B. If excessively high H₂S levels are encountered during drilling, BRP will either: 1) Place into operation additional H₂S abatement capacity, or 2) Cease operation and close in the well according to appropriate standards of operation. For the purposes of this permit, excessively high levels of H₂S means abated emissions greater than five (5) pounds of H₂S per hour or abated emission levels in excess of 500 ppmv.
- C. Visible emissions shall not exceed the values listed below for more than three (3) minutes in any one (1) hour: • Ringelmann 0.5 (10% opacity) for detached plume at the cyclone; • Ringelmann 0.5 (10% opacity) for combustion emissions of engine exhaust; and • Ringelmann 1 (20% opacity) for road and pad dust emissions.
- D. On commencement of air drilling in significant serpentine, the well logger shall obtain bulk samples that shall be analyzed for asbestos content using TEM, SEM or PLM (California Air Resources Board [ARB] Method 435 Procedures). For the purpose of defining a significant serpentine deposit during geothermal air drilling: "Significant Serpentine" shall mean; drill cutting samples from two consecutive ten-foot interval-drilling sections identified as having 10% or greater serpentine or other asbestos-containing rock. The Lake County Air Quality Management District (LCAQMD) shall be promptly notified by phone at 263-7000, provided samples of the drilled material, and unless otherwise agreed upon in writing, notified of the bulk asbestos analysis results within ten working days of sampling.
- E. During drilling in significant serpentine visible emissions shall not exceed Ringelmann 0.25 (5% opacity) for detached plume at the cyclone. BRP shall: 1) Increase down hole misting; 2) Increase water loading at the venturi; 3) Reduce the drilling rate; 4) Use wetting agents; and/or 5) Implement additional solids filtration of working water. Such additional effort shall continue until drilling is clear of significant serpentine/asbestos.

Condition 2: Administrative

- A. This permit has been issued as a modification to include cleanout, forking or deepening of the well as described in the application and permit review. This permit does not establish a precedent for the issuance of additional permits.
- B. The submitted BRP (Tecton) H₂S abatement plan approved by the APCO shall be implemented and followed, and is incorporated herein by reference. Logbook entries shall be made a minimum of four (4) times daily while drilling on air or in steam.
- C. Diesel fuel utilized shall be California Low Sulfur Diesel containing less than 15ppmw sulfur.
- D. If a vapor-dominated resource is encountered and it is determined that emissions cannot be maintained pursuant to Parts A & B of LCAQMD Rule 421; or the APCO determines that the well on stand-by (bleed) status will violate the intent of LCAQMD Rule 602 or the associated steamfield permit, then BRP shall, with approval of the APCO, install and utilize additional abatement equipment as necessary to bring emissions into compliance. This may include, but is not limited to, immediate conversion to an injector, gas capping, down-hole plugging, and/or the complete closing in of any well in violation of LCAQMD Rules and Regulations.
- E. BRP shall utilize the particulate scrubbing system as substantially described in the permitting review and includes the following configuration: 1) A smooth expansion blooie line with low-pressure constricting and non-constricting interchangeable venturis with water injection for venturi contact/scrubbing. The non-constricting venturi

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AUTHORITY TO CONSTRUCT

Lake County Air Quality Management District

2617 S. Main Street, Lakeport, CA 95453 (707) 263-7000, Fax (707) 263-0421

Permit # A/C 2005-48

By: Douglas G. Gearhart
Douglas G. Gearhart, APCO

Type of Issuance: Renewal Issuance Date: 10/31/2025 Valid through: 10/31/2026 Category: IV

Operations under this permit must be conducted in compliance with all specifications and data included with the application under which this permit was issued. Equipment must be properly maintained and kept in good condition at all times. Post this permit or a facsimile (with conditions) in a conspicuous location on or near the equipment.

Contact: Ms. Susan Petty
Owner: Bottle Rock Power, LLC
Mailing: c/o AltaRock Energy, Inc.
Address: P.O. Box 31205
Seattle, WA 98103-8099

Facility: West Coleman Padsite
Location: West Coleman 5-6, located on Bottle Rock West Coleman Padsite (1155m So. & 134.9m W of the NE Corner Section 6, T11N, R8W, MDB&M, Lake County, N 397,334 E 1,797,546)

Name and Equipment Description: W. Coleman 5-6 Re-Drill

Geothermal drilling rig and accessories (NCPA Rig #1), Four electrical generators (CAT D-398TA 750 HP diesel engines PERP Registered), three air compressors (Cummins QSK19-C700 700 HP turbocharged diesel-powered air compressors PERP Registered), one down hole misting pump; hydrogen sulfide abatement system utilizing high pressure injection of NaOH and H₂O₂; and particulate control equipment consisting of misting down hole, constricting and non constricting venturi contactors, low pressure water spray, expanding blooie line, properly sized, smoothed, tangential wet cyclone, properly designed drop or hopper, water treatment and management systems, necessary metering and measuring devices and associated equipment.

Permit Conditions

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(Conditions 2 through 6 are continued on the back of this card)

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Check Number 9910822305

Amount USD 17,379.00

Cleared Date 06/27/25

Pay To NSCAPCD (Northern Sonoma County
Air Pollution Control District)

Bills Paid With This Check

Invoice #	Due Date	Amount	Payment Amount
VI-23-02	04/15/25	USD 17,379.00	USD 17,379.00

Page 1

Remittance Info: inv VI-23-02

Mayacoma Geothermal LLC
245 East Liberty Street
Ste 520
Reno, NV 89501
7752608360

JPMorgan Chase Bank, N.A.
Verify: 888-237-9615
90-7162/3222

8910822305

4/25/2025

PAY TO THE ORDER OF NSCAPCD (NORTHERN SONOMA COUNTY AIR POLLUTION CONTROL DISTRICT)

\$ 17379.00

Seventeen Thousand Three Hundred Seventy-Nine and 00/100 DOLLARS

VOID AFTER 90 DAYS

18 3688
NSCAPCD (NORTHERN SONOMA COUNTY AIR
POLLUTION CONTROL DISTRICT)
625 CENTER STREET
HEALDSBURG, CA 95448

John R. [Signature]

88 com, U.C. 10000

⑈9910822305⑈ ⑆322271627⑆ 215376176⑈

Page 2

ENDORSE HERE

RESERVED
NORTHERN SONOMA COUNTY
AIR POLLUTION CONTROL DISTRICT
Healdsburg, CA 95448
625 Center Street

☐ CHECK HERE FOR DEPOSIT ONLY REMOTE DEPOSIT

DATE _____

DO NOT WRITE, STAMP OR SIGN BELOW THIS LINE
RESERVED FOR FINANCIAL INSTITUTION USE *

6/27/2025 00001125 1

SECURITY FEATURES
The security features listed below, as well as those not listed, exceed industry guidelines.
Security Features:
• Microprint Line
• Chemically Sensitive Paper
• Security Screen
Results of document alteration:
• MP Smart type in line appears as dotted line when photocopied
• Stains or spots may appear with chemical alteration
• Absence of "Original Document" watermark on back of check

* FEDERAL RESERVE BOARD OF GOVERNORS REG. 20

USD 17,379.00 Check Payment to [NSCAPCD \(Northern Sonoma County Air Pollution Control District\)](#)

Check Cleared #P25042302 - 1370580 | created by Josh Flippo (Inactive)

Overview Funding Disbursements Audit trail Advanced

Tracking info

- ✓ April 23, 2025
Payment scheduled
- ✓ April 24, 2025
Payment initiated
- ✓ April 25, 2025
Payment sent to vendor
- ✓ April 30, 2025
Check delivered
- ✓ June 27, 2025
Payment cleared
The payment for USD 17379.00 is completed.

Payment details

Process date	Arrival date ⓘ	Payment address
04/24/25	04/30/25	625 CENTER STREET HEALDSBU...
Paid from	Memo	Total payment amount ⓘ
ZIONS BANCORPORATION N.A. *... Inv VI-23-02		USD 17,379.00
Account	Total vendor credits applied	
Mayacma Bill.com Money Out Clea... USD 0.00		
Check info		
Check #	Check date	Check expiration date
9910822305	04/25/25	07/24/25
Check images		