



**MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT**

14306 Park Avenue Victorville, CA 92392-2310  
 760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

**PERMIT TO OPERATE**

B013382

Operation under this permit must be conducted in compliance with all information included with the initial application, initial permit condition, and conditions contained herein. The equipment must be maintained and kept in good operating condition at all times. This Permit to Operate or copy must be posted on or within 8 meters of equipment. If a copy is posted, the original must be maintained on site, available for inspection at all times.

**EXPIRES LAST DAY OF: JUNE 2025**

**OWNER OF OPERATOR (Co. #2502)**

Castle Mountain Venture  
 980 American Pacific Dr., Suite 102  
 Henderson, NV 89014

**EQUIPMENT LOCATION (Fac. #3896)**

Castle Mountain Mine  
 115575 Hart Mine Road  
 Ivanpah, CA 92364

**Description:**

HEAP LEACH PROCESS consisting of:

**EQUIPMENT**

Capacity	Equipment Description
0	22-TK-140 Pregnant Solution Tank, 86,608.68 ft <sup>3</sup>
75	22-PP-141 Pregnant Solution Pump
75	22-PP-142 Pregnant Solution Pump (Standby)
0	34-MP-123 Antiscalant Dosing Pump
0	22-ST-106 Barren Solution Strainer
0	22-ST-107 Barren Solution Strainer
0	22-ST-108 Barren Solution Strainer
0	22-SA-104 Barren Solution Sampler
0	22-SA-183 Process Tank Containment Solution Sampler
0	22-PP-181 Process Tank Containment Solution Pump
0	22-ZM-182 Process Tank Containment Pump Slide
700	22-PP-101 Barren Solution Pump
700	22-PP-102 Barren Solution Pump (Standby)
0	22-TK-100 Barren Solution Tank

Fee Schedule: 7 (i)      Rating: 1 device      SIC: 1041      SCC: 30301301      Location/UTM(Km): 672E/3905N

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

Castle Mountain Venture  
 980 American Pacific Dr.  
  
 Henderson, NV 89014

By: **COPY**  
 Brad Poiriez  
 Air Pollution Control Officer

Capacity	Equipment Description
50	22-PP-151 ADR Process Solution Pump
50	22-PP-152 ADR Process Solution Pump (Standby)
0	22-PD-130 Event Pond
50	22-PP-131 Event Pond Pump
0	22-SA-133 Event Solution Sampler
1.5	34-MP-041 Cyanide Metering Pump
1.5	34-MP-042 Cyanide Metering Pump
7.5	34-PP-050 Heap Leach Cyanide Area Sump Pump
0	34-TK-020 Heap Leach Cyanide Storage Tank
20	34-GC-040 NaCN Air Compressor w/ Receiver
7.5	34-PP-035 NaCN Transfer Pump
0	34-TK-010 NaCN Dissolving Tank
15	34-PP-030 NaCN Recirculation Pump

### CONDITIONS:

1. Operation of this equipment shall be conducted in compliance with data and specifications submitted with the application under which this permit is issued unless otherwise noted below  
[District Rule 1302]

2. This facility is subject to and shall comply upon startup with 40 CFR Part 63 Subpart EEEEEEE - Gold Mine Ore Processing and Production NESHAP.  
[40 CFR 63.11641(c)]

3. This facility is subject to and shall comply with 40 CFR Part 60 Subpart LL - Standards of Performance for Metallic Mineral Processing Plants.

4. The owner/operator shall limit the concentration of cyanide in solution not to exceed 0.4 gram per liter while maintaining a pH above 10.  
[District Rule 1302]

5. Ore delivery to heap leach process shall not exceed 6,250,000 tons per year (rolling 12 month sum).  
[District Rule 1302]

6. The owner/operator shall maintain the following information on-site. The log shall be kept current, on-site for a minimum of five years and provided to District personnel on request.

- a. Monthly total (summarized annually) of ore delivery to heap leach process.
  - b. Daily sample collection and analysis of cyanide solution pH. The point of sample collection shall be the Barren Pump Box.
  - c. Any deviations from the operating standards of condition 4 and corrective actions (if corrective actions are necessary).
- [District Rule 1302]

7. Materials processed (blasting, excavation, open pit material loading by front end loaders, transport from open pit mine to the lime silo, and ore dumping to active stacking area (Heap Leach Pad) shall contain sufficient natural and/or added moisture to ensure compliance with District Rules 401, 402, and 403.  
[District Rule 1302]

8. Fugitive dust control shall be a routine, day-to-day operation for dust generated by vehicular traffic on unpaved roads and shall be effected from a water cannon and/or traditional water truck and/or the application of chemical stabilizers as a minimum. A water cannon truck shall be available to mitigate the open pit loading by front end loaders to trucks.  
[District Rule 1302]

9.The owner/operator shall submit an application to the MDAQMD for a Federal Operating Permit no later than 12 months after commencing operations of affected sources.

[40 CFR 63.11640(d); District Rule 1202(B)(3(c))]

10.A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.

[District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]