



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

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

AUTHORITY TO CONSTRUCT

B015512

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: MARCH 2027

OWNER OF OPERATOR (Co. #3195)

Harris Exploration Drilling & Associates, Inc.
19 Sheckler Cutoff
Fallon, NV 89406

EQUIPMENT LOCATION (Fac. #4675)

Harris Exploration - Stronghold Silver USA
8mi NE of Barstow, 4mi NW of Yermo, 1mi W of Calico Ghost Town
Barstow, CA 92311

Description:

DIESEL IC ENGINE, PORTABLE DRILLING EQUIPMENT consisting of: A certified Tier 3 diesel engine, EPA Family DCEXH0408BAP, Year of Manufacturer: 2013. Exhaust stack is estimated at 10 foot high with a TBD foot diameter. This equipment may operate anywhere within the Mojave Desert AQMD.

One Cummins, Diesel fired internal combustion engine Model No. QSB6.7 and Serial No. TBD, After Cooled, Exhaust Gas Recirculation, Exhaust Gas Recirculation, Engine/Powertrain Control Module, Periodic Trap Oxidizer, Turbo Charged, producing 220 bhp with 6 cylinders at 2200 rpm while consuming a maximum of 12.39 gal/hr. This equipment powers a Boart Longyear Driller Model No. LF90D and Serial No. TBD, rated at TBD.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	0.6	gm/bhp-hr
NOx	0.18	gm/bhp-hr
PM10	0.000	gm/bhp-hr
PM2.5	0.000	gm/bhp-hr
SOx	0.005	gm/bhp-hr
VOC	0.04	gm/bhp-hr

Fee Schedule: 1 (c)

Rating: 220 bhp

SIC: 1081

SCC: 20200102

Location/UTM(Km):
510E/3868N

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.

Harris Exploration Drilling & Associates,
Inc.
19 Sheckler Cutoff
Fallon, NV 89406

By: **COPY**
Brad Poiriez
Executive Director

CONDITIONS:

1. This certified Tier 4 Interim portable compression-ignited internal combustion engine and any associated air pollution control equipment, shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.

[District Rule 204]

2. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed engine operating time.

[Title 17 CCR 93116.4(b)(2)(A)]

3. This equipment shall only be fired on diesel fuel that meets the following requirements, or an alternative fuel approved by the ATCM for Stationary CI Engines:

a. Ultra-low sulfur concentration of 0.0015% (15 ppm) or less, on a weight per weight basis; and,

b. A cetane index or aromatic content, as follows:

(i) A minimum cetane index of 40; or,

(ii) A maximum aromatic content of 35 volume percent.

[17 CCR 93116.3(a); 40 CFR 1090.305]

Note: Use of CARB certified ULSD fuel satisfies these requirements.

4. The owner/operator shall maintain an operations log for this engine current and on-site (or at a central location) for a minimum of five (5) years, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the following information:

a. Date, location (decimal degrees: yy.yyyy (latitude), -xxx.xxxx (longitude)), and duration of each use (in hours);

b. Monthly and consecutive 12 month period operation in terms of fuel consumption (in gallons) or total hours (both prime and maintenance use);

c. Fuel sulfur concentration as required by condition #3 (the o/o may use the supplier's certification of sulfur content if it is maintained as part of this log);

d. Date and Description of maintenance performed on this equipment; and

e. Calendar year operating hours to assist CEI calculations.

[District Rule 204; 17 CCR 93116.4]

5. This diesel IC engine and its associated equipment cannot be operated at the same engine-print (spot) for more than 365 consecutive days. (This system must be moved within this facility or moved to another facility annually pursuant to the ATCM's definition of "portable".)

[District Rules 1302, 1303, and 1320; Title 17 CCR 93116.2(a)(29)]

6. Visible emissions from this equipment shall not exceed an opacity equal to, or greater than, twenty percent (20%) or Ringlemann No. 1 for a period aggregating more than three (3) minutes in any one (1) hour, excluding uncombined water vapor. This equipment shall not discharge air contaminants or materials constituting a nuisance to any considerable number of persons or to the public. Roadways, work areas and stockpiles shall be kept sufficiently moist to control fugitive dust, and no visible emissions shall extend beyond the property line of the emission source. Equipment to properly wet the material being processed shall be maintained in operable condition on-site and used as necessary to assure compliance with this condition.

[District 401(C)(1); District Rule 402; District Rule 403; District Rule 204]

7. This unit shall not operate within a 1000 feet of the outer boundary of any K-12 school for more than 45 days annually. Such operation will require the submittal of an application for a revised permit to operate so that the applicable requirements of the California Health and Safety Code Section 42301.6 will be met.

[H&S Code 42301.6; District Rule 1302(C)(2)(a)]

8. This engine is subject to the requirements of Title 17 CCR 93116, the Airborne Toxic Control Measure (ATCM) for Diesel Particulate Matter from Portable Engines Rated at 50 Horsepower and Greater. In the event of a conflict between these conditions and the ATCM, the more stringent requirements shall govern.

[District Rule 1302; Title 17 CCR 93116]

9. 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. For the purposes of CEI, Facility is defined as every structure, appurtenance, installation, and improvement on land which is associated with a source of air releases or potential air releases of a hazardous material. [District Rule 107(b); H&S Code 39607 & 44341-44342; 17 CCR 93400 et seq.; and 40 CFR 51, Subpart A]