

year in which advance royalty is accepted in lieu of continued operation for the purposes of this paragraph. However, if an operator/lessee meets the requirement for continued operation in any continued operation year in which the operator/lessee has paid advance royalty, such year shall not be considered when calculating the maximum number of years for which advance royalty may be accepted for the Federal lease or LMU. The number of years for which advance royalty has been paid under any Federal coal lease prior to its inclusion in an LMU shall not be considered when calculating the maximum number of years for which advance royalty may be accepted for the LMU.

(e) The dollar amount of any production royalty for a Federal coal lease or LMU owed for any continued operation year during or subsequent to the continued operation year in which advance royalty is paid, shall be reduced (but not below zero) by the dollar amount of any advance royalty paid under that Federal lease or LMU to the extent that such advance royalty has not been used to reduce production royalty for a prior year.

(f) No advance royalty paid during the initial 20-year term of a Federal coal lease or LMU shall be used to reduce a production royalty pursuant to paragraph (e) of this section after the 20th year of the Federal coal lease or LMU. For purposes of this paragraph, the initial 20-year term of a Federal lease shall commence on the effective date of the Federal lease for all Federal leases issued after August 4, 1976; on the effective date of the first lease readjustment after August 4, 1976, for all Federal leases issued prior to August 4, 1976; and on the effective date of LMU approval for all LMU's. Any advance royalty paid on a Federal lease prior to its inclusion in an LMU shall be credited to the LMU and shall be considered to have been paid on the date of LMU approval for the purposes of this paragraph, provided that the Federal lease has been included in an LMU within the initial 20-year term of the Federal lease as determined in this paragraph and to the extent that the advance royalty has not already been

credited against production royalty on the Federal lease.

(g) If an operator/lessee fails to make an approved advance royalty payment in any continued operation year, the authorized officer shall inform the operator/lessee in writing that the operator/lessee is in violation of the continued operation requirement. If the operator/lessee then fails to comply with 30 CFR 218.200, the Federal lease or LMU shall be subject to cancellation pursuant to §3483.2 of this title.

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**§3483.5 Crediting of production toward diligent development.**

(a) For Federal coal leases issued after August 4, 1976, all production after the effective date of the Federal lease shall be credited toward diligent development.

(b) For Federal coal leases issued prior to August 4, 1976, all production after the effective date of the first lease readjustment after August 4, 1976, shall be credited toward diligent development.

(c) For Federal coal leases issued prior to August 4, 1976, that have not been readjusted after August 4, 1976, if the operator/lessee has elected under §3483.1 of this title to be subject to the diligent development and continued operation requirements of the rules of this part, all production after the effective date of the operator/lessee's election shall be applied toward diligent development.

(d) For Federal coal leases issued prior to August 4, 1976, that have not been readjusted after August 4, 1976, if the operator/lessee has elected under §3483.1 of this title to be subject to the diligent development and continued operation requirements of the rules of this part, all production after August 4, 1976, that occurred prior to the effective date of the operator/lessee's election shall be applied toward diligent development if the operator/lessee so requests.

(e) For Federal coal leases issued prior to August 4, 1976, that have been readjusted after August 4, 1976, all production after August 4, 1976, that occurred prior to the effective date of the

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first lease readjustment after August 4, 1976, shall be applied toward diligent development if the operator/lessee so requests. Such a request shall comply with the election application provisions at §3483.1(b)(1) of this title. Any production after such readjustment shall be applied toward diligent development pursuant to paragraph (b) of this section.

(f) For Federal coal leases issued prior to August 4, 1976, that are governed by the Federal lease clauses which describe the minimum production requirements until the first lease readjustment after August 4, 1976, no production prior to the effective date of that first Federal lease readjustment shall be applied toward diligent development.

(g) For LMU's, any production credited under the rules of this part to a Federal lease prior to its inclusion in the LMU shall be applied toward diligent development for the LMU.

### §3483.6 Special logical mining unit rules.

(a) Production anywhere within the LMU, of either Federal or non-Federal recoverable coal reserves or a combination thereof, shall be applied toward satisfaction of the requirements of the rules of this part for achievement of diligent development and continued operation for the LMU.

(b) The dates for submission of a resource recovery and protection plan and achievement of diligent development shall not be changed by any enlargement or diminution of the LMU.

## Subpart 3484—Performance Standards

### §3484.1 Performance standards for exploration and surface and underground mining.

The following performance standards shall apply to exploration, development, production, resource recovery and protection, MER, and preparation and handling of coal under Federal leases and licenses, and LMU's.

(a) *Performance standards for exploration.* (1) The operator/lessee shall comply with the standards of the rules of this part and with all applicable requirements of the surface management

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agency, 30 CFR 815.15, or an approved State program.

(2) The operator/lessee, if required by the authorized officer, shall set and cement casing in the hole and install suitable blowout prevention equipment when drilling on lands valuable or prospectively valuable for oil, gas, or geothermal resources.

(3) All exploration drill holes must be capped with at least 5 feet of cement and plugged with a permanent plugging material that is unaffected by water and hydrocarbon gases and will prevent the migration of gases and water in the drill hole under normal hole pressures. For exploration holes drilled deeper than stripping limits, the operator/lessee, using cement or other suitable plugging material approved by the authorized officer, shall plug the hole through the thickness of the coal bed(s) or mineral deposit(s) and through aquifers for a distance of at least 50 feet above and below the coal bed(s) or mineral deposit(s) and aquifers, or to the bottom of the drill hole. A lesser cap or plug may be approved by the authorized officer. Exploration activities shall be managed to prevent water pollution and mixing of ground and surface waters and ensure the safety of people, livestock, and wildlife.

(4) The operator/lessee shall retain for 1 year, unless a shorter time period is authorized by the authorized officer, all drill and geophysical logs and shall make such logs available for inspection or analysis by the authorized officer, if requested. The authorized officer, at his discretion, may require the operator/lessee to retain representative samples of drill cores for 1 year. Confidentiality of such information will be accorded pursuant to the provisions at §3481.3 of this title.

(5) The operator/lessee may utilize exploration drill holes as surveillance wells for the purpose of monitoring the effects of subsequent operations on the quantity, quality, or pressure of ground water or mine gases only with the written approval of the authorized officer, in consultation with the regulatory authority. The operator/lessee may convert exploration drill holes to water wells only after approval of the operator/lessee's written request by the