

Subpart M—Maps**§ 77.1200 Mine map.**

The operator shall maintain an accurate and up-to-date map of the mine, on a scale of not less than 100 nor more than 500 feet to the inch, at or near the mine, in an area chosen by the mine operator, with a duplicate copy on file at a separate and distinct location, to minimize the danger of destruction by fire or other hazard. The map shall show:

- (a) Name and address of the mine;
- (b) The property or boundary lines of the active areas of the mine;
- (c) Contour lines passing through whole number elevations of the coalbed being mined. The spacing of such lines shall not exceed 25-foot elevation levels, except that a broader spacing of contour lines may be approved by the District Manager for steeply pitching coalbeds. Contour lines may be placed on overlays or tracings attached to mine maps.
- (d) The general elevation of the coalbed or coalbeds being mined, and the general elevation of the surface;
- (e) Either producing or abandoned oil and gas wells located on the mine property;
- (f) The location and elevation of any body of water dammed or held back in any portion of the mine: *Provided, however*, Such bodies of water may be shown on overlays or tracings attached to the mine maps;
- (g) All prospect drill holes that penetrate the coalbed or coalbeds being mined on the mine property;
- (h) All auger and strip mined areas of the coalbed or coalbeds being mined on the mine property together with the line of maximum depth of holes drilled during auger mining operations.
- (i) All worked out and abandoned areas;
- (j) The location of railroad tracks and public highways leading to the mine, and mine buildings of a permanent nature with identifying names shown;
- (k) Underground mine workings underlying and within 1,000 feet of the active areas of the mine;
- (l) The location and description of at least two permanent base line points, and the location and description of at

least two permanent elevation bench marks used in connection with establishing or referencing mine elevation surveys; and,

- (m) The scale of the map.

§ 77.1201 Certification of mine maps.

Mine maps shall be made or certified by an engineer or surveyor registered by the State in which the mine is located.

§ 77.1202 Availability of mine map.

The mine map maintained in accordance with the provisions of § 77.1200 shall be available for inspection by the Secretary or his authorized representative.

Subpart N—Explosives and Blasting**§ 77.1300 Explosives and blasting.**

- (a) No explosives, blasting agent, detonator, or any other related blasting device or material shall be stored, transported, carried, handled, charged, fired, destroyed, or otherwise used, employed or disposed of by any person at a coal mine except in accordance with the provisions of §§ 77.1301 through 77.1304, inclusive.
- (b) The term “explosives” as used in this Subpart N includes blasting agents. The standards in this Subpart N in which the term “explosives” appears are applicable to blasting agents (as well as to other explosives) unless blasting agents are expressly excluded.

§ 77.1301 Explosives; magazines.

- (a) Detonators and explosives other than blasting agents shall be stored in magazines.
- (b) Detonators shall not be stored in the same magazine with explosives.
- (c) Magazines other than box type shall be:
 - (1) Located in accordance with the current American Table of Distances for storage of explosives.
 - (2) Detached structures located away from powerlines, fuel storage areas, and other possible sources of fire.
 - (3) Constructed substantially of non-combustible material or covered with fire-resistant material.
 - (4) Reasonably bullet resistant.