



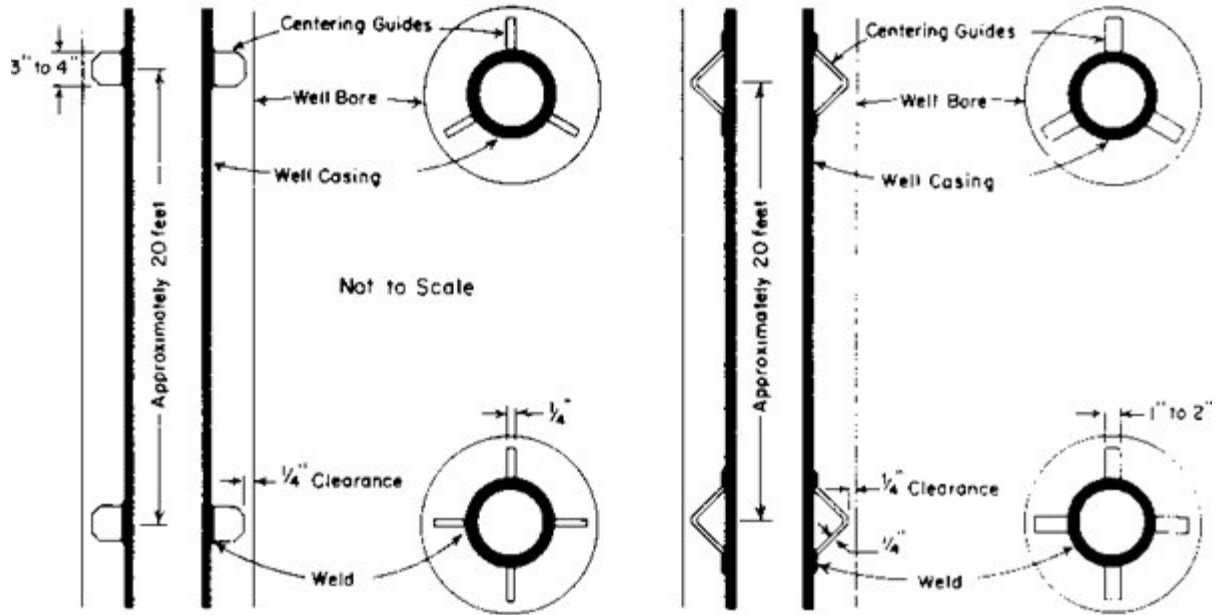
ADMINISTRATIVE RULES OF MONTANA



36.21.680 VARIANCES

- (1) When, due to special circumstances beyond the control of the contractor, compliance with these minimum construction standards is impossible or otherwise unreasonably difficult, a variance may be requested from the board of water well CONTRACTORS prior to beginning or continuing construction of the well. The request for a variance shall be in writing and shall include:
 - (a) the purpose of the well construction;
 - (b) the location of the well;
 - (c) name and address of the owner;
 - (d) distance to the nearest well, septic tank, drainfield, or other hazardous wastes--surface or subsurface;
 - (e) the unusual conditions existing at the well site;
 - (f) the reasons that compliance with the rules for minimum standards will not result in a satisfactory well;
 - (g) the proposed standards that the water well contractor believes will be adequate for his particular well; and
 - (h) a drawing with written explanation showing the pertinent features of the proposed well design and construction.
- (2) If the board finds that special circumstances beyond the control of the contractor make compliance with existing standards impossible or otherwise unreasonably difficult, and finds that the proposed variance will adequately protect the public and the ground water RESOURCES, the board may approve the proposed construction by prescribing a variance for the particular well under consideration.
- (3) The board shall act in writing on any requests for variances within 30 days after receipt of the request.

CENTERING GUIDES



NOTE. Well casing, to be sealed into an oversize drillhole, should be equipped with a series of centering guides to insure proper centering of casing. Guides should be constructed of steel, at least 1/4" in thickness, evenly spaced in groups of 3 or 4, and welded to the casing.

Figure 1.

SEALING OF CONSOLIDATED FORMATIONS

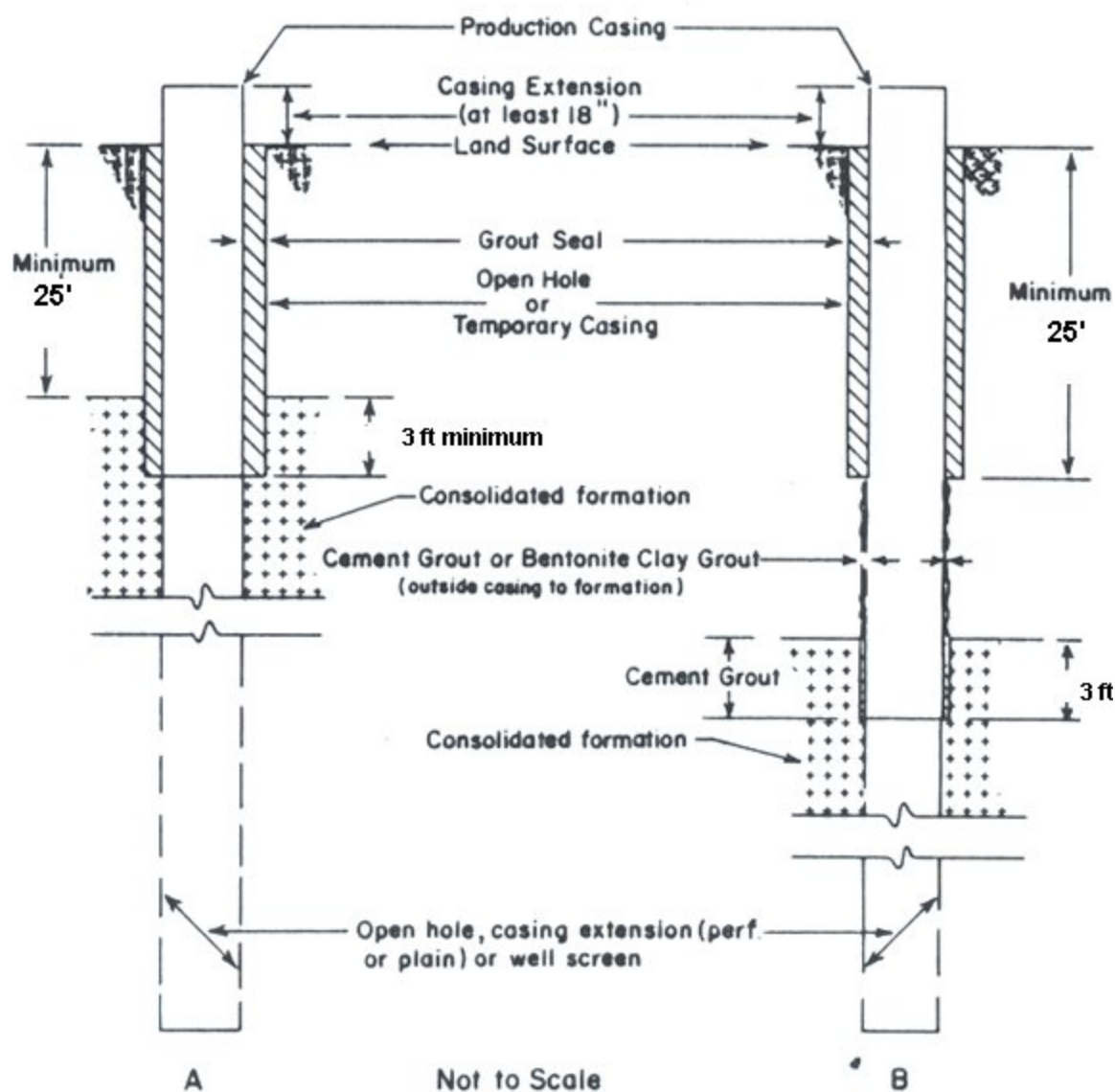


Figure 2.

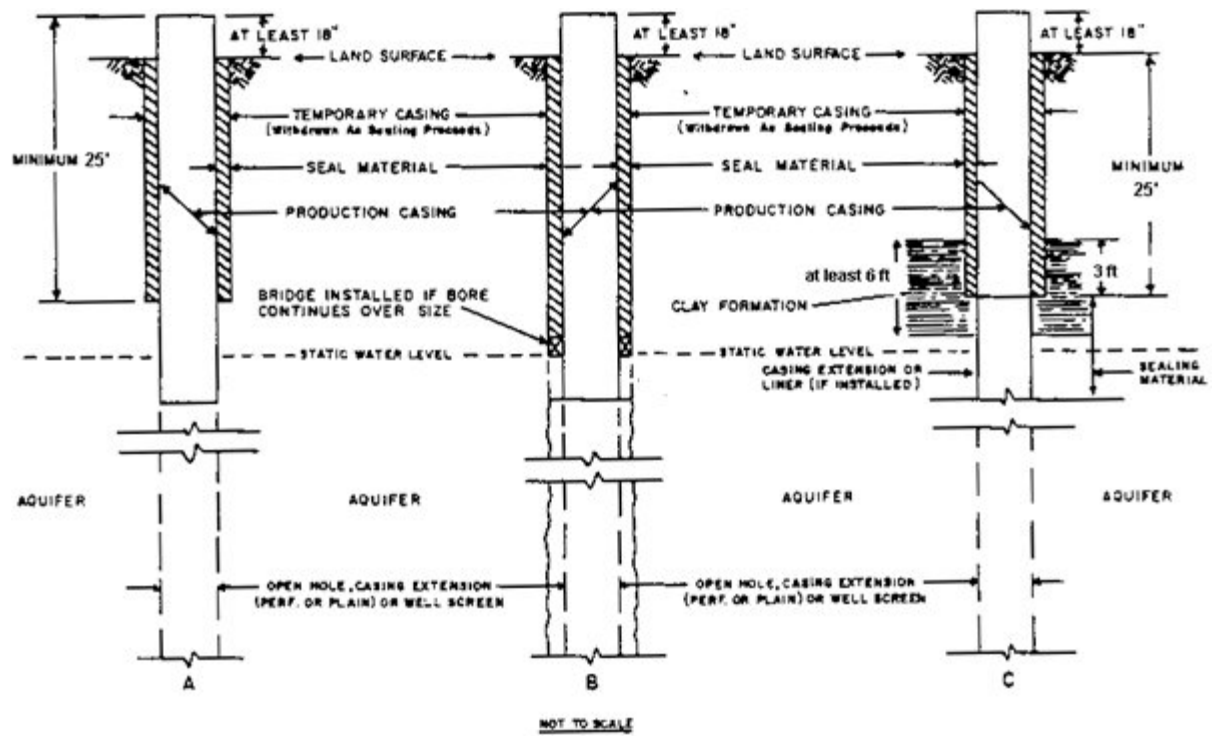
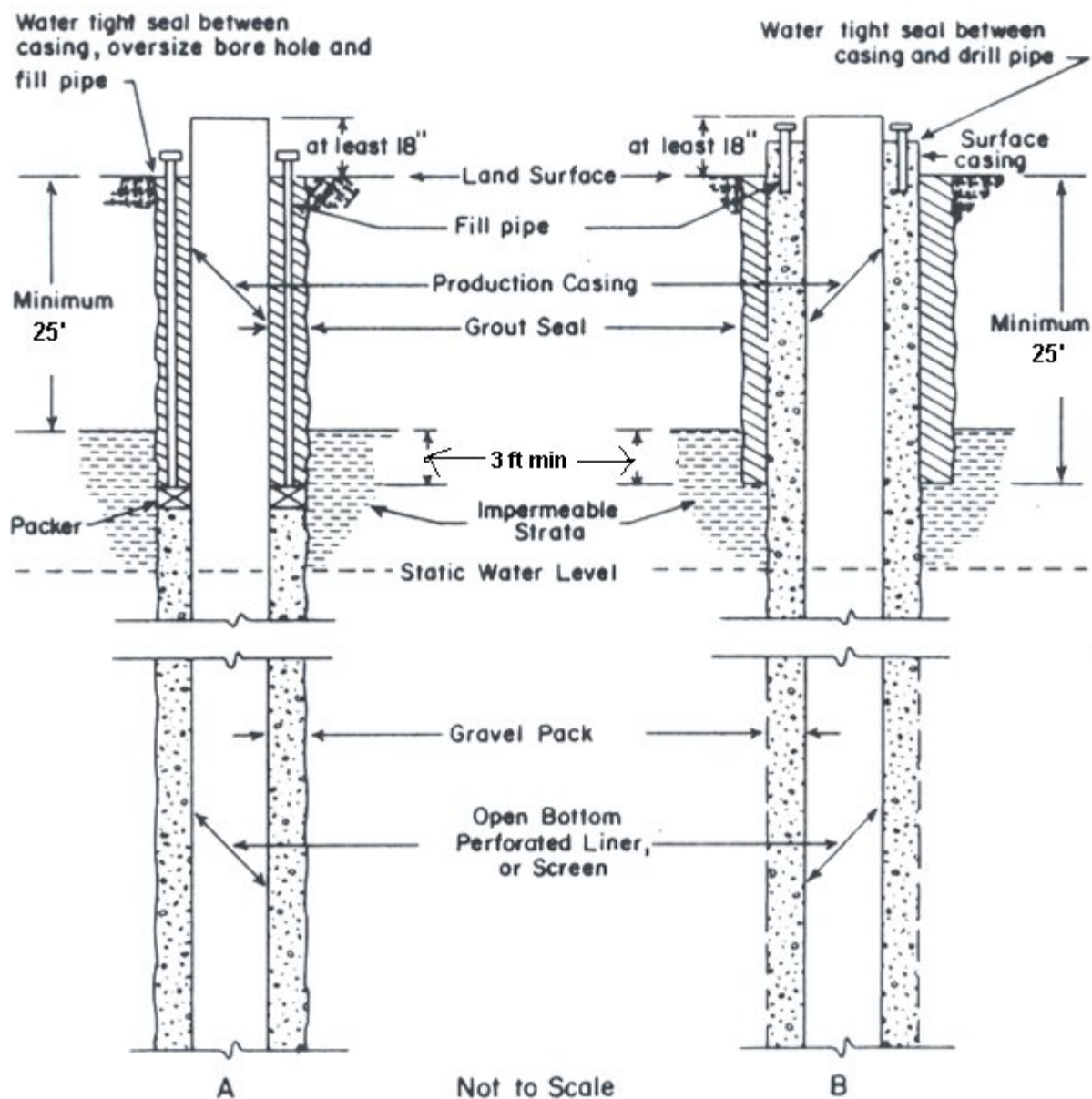


Figure 3. SEALING OF UNCONSOLIDATED FORMATIONS

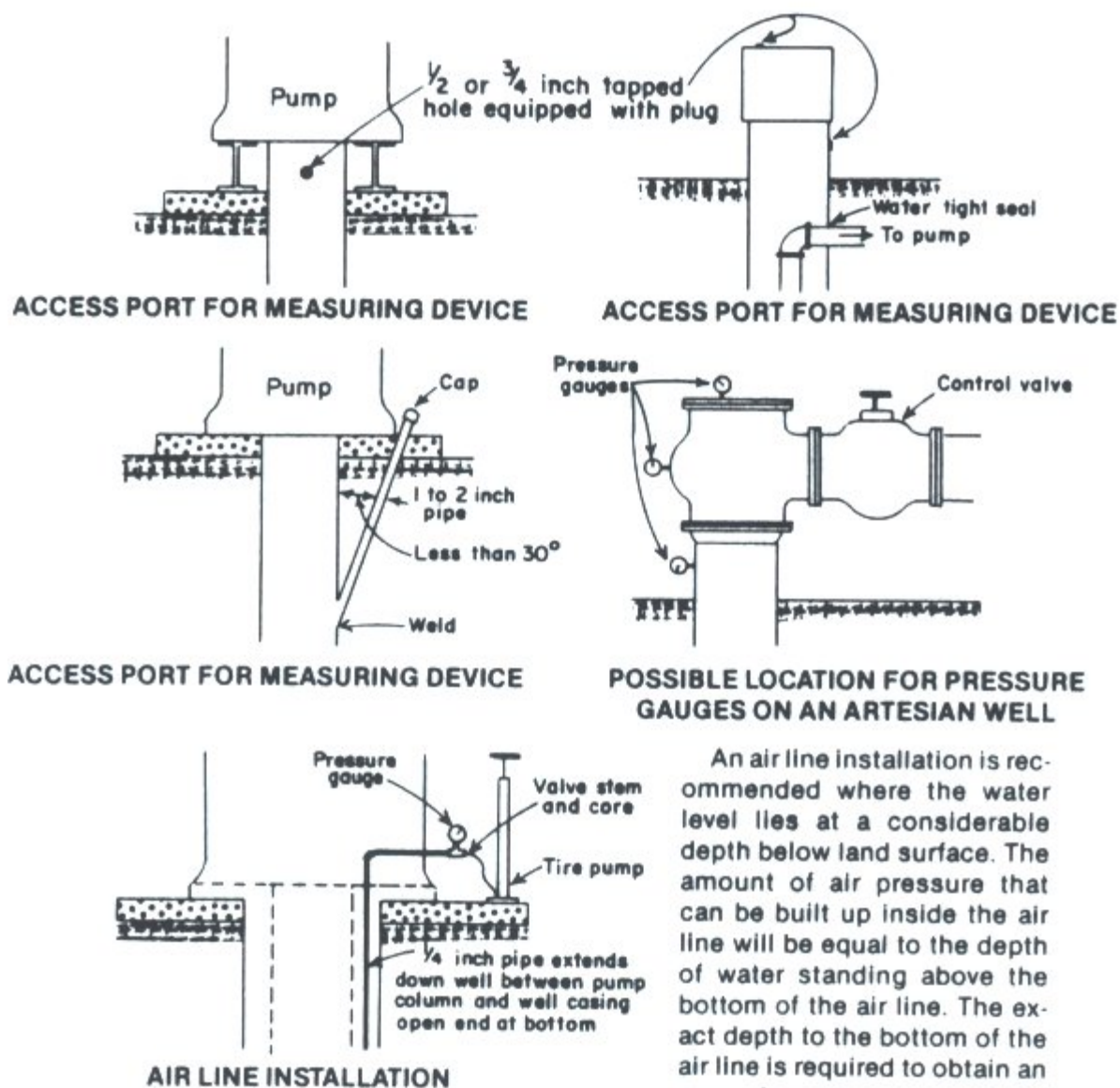
SEALING OF GRAVEL-PACKED WELLS



A - Well constructed without surface casing.
B - Well constructed with surface casing.

Figure 4.

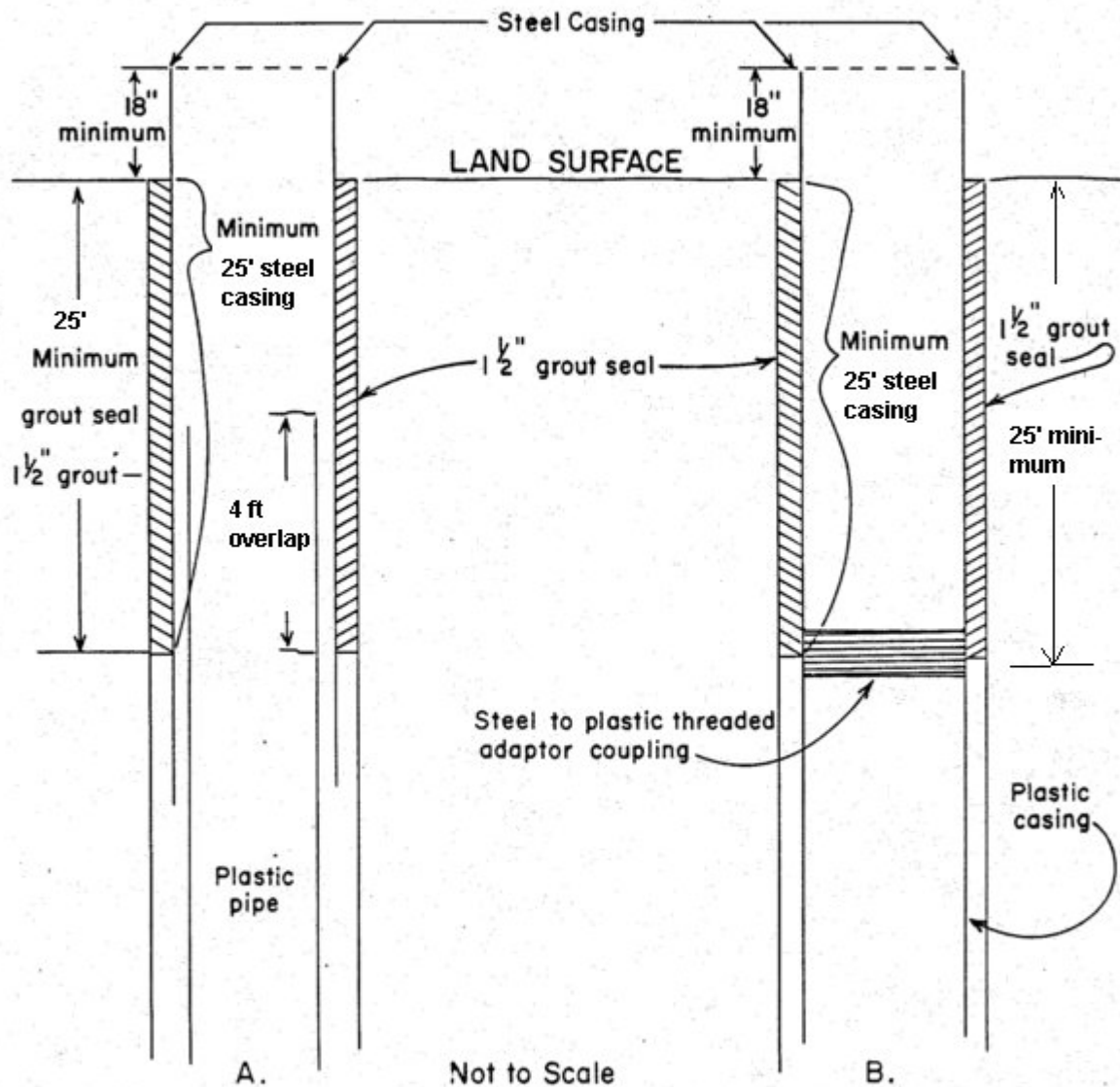
SUGGESTED METHODS OF INSTALLING ACCESS PORTS, PRESSURE GAUGES, AND AIR LINES FOR MEASURING WATER LEVELS IN WELLS



An air line installation is recommended where the water level lies at a considerable depth below land surface. The amount of air pressure that can be built up inside the air line will be equal to the depth of water standing above the bottom of the air line. The exact depth to the bottom of the air line is required to obtain an accurate measurement of the water level in the well. One pound per square inch pressure equals 2.31 feet of water.

Figure 5.

STEEL TO PLASTIC TRANSITION CONNECTIONS REQUIRED WITH USE OF PLASTIC



- A. Well cased with plastic showing 8 foot overlap between steel and plastic.
- B. Well cased with plastic using steel to plastic threaded adaptor coupling.

Figure 6.

Authorizing statute(s): 37-43-202(3), MCA

Implementing statute(s): 37-43-202(3), MCA

History: NEW, 1986 MAR p. 1699, Eff. 10/17/86.