28. This drawing shows a storage tank for flammable liquid.

TANK WITHIN DIKE ———|——— TANK IN OPEN
                                    NO DIKE

5 FT. RADIUS   5 FT. RADIUS
  AROUND   AROUND VENT—
THIEF HATCH—   DIVISION 1
DIVISION 1   10 FT.

10 FT.

                                        MINIMUM
                                        ALLOWABLE
                                        CLEARANCE
DIKE   12 FT.

BELOW GRADE SUMP   LIQUID   STORAGE
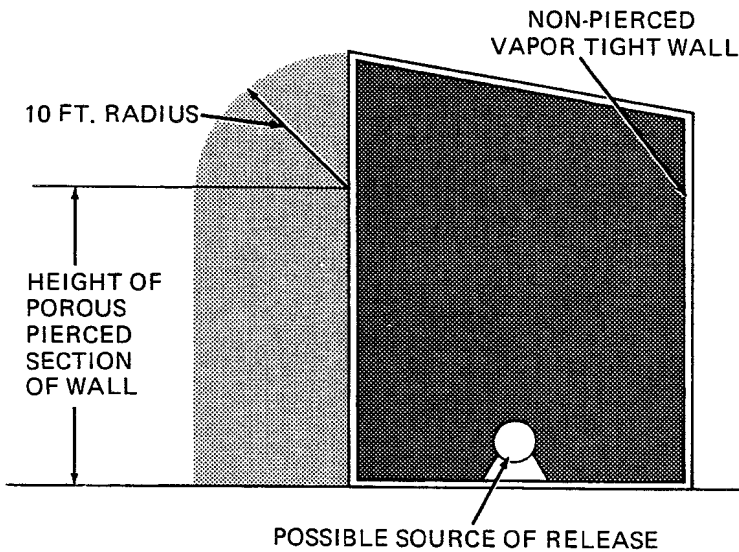OR TRENCH   SURFACE   TANK

█ DIV. 1   ▒ DIV. 2
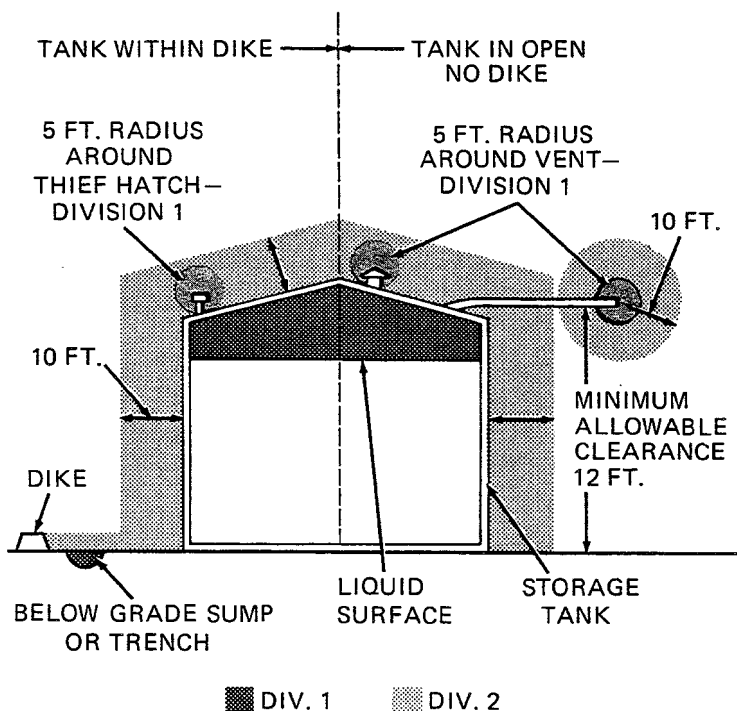
The enclosed area above the _____ of the
liquid is considered the most hazardous area.

29. The _____ and any other _____
at the top of the tank are also identified as Division 1.

30. This drawing shows a compressor or pump installed in an
adequately ventilated building.

                                    NON-PIERCED
VENTILATION SYSTEM   VAPOR TIGHT WALL

PIERCED OR
POROUS WALL

|——— 10 FT. ———|

18 IN.
          POSSIBLE SOURCE
          OF RELEASE   BELOW GRADE
                            SUMP OR TRENCH
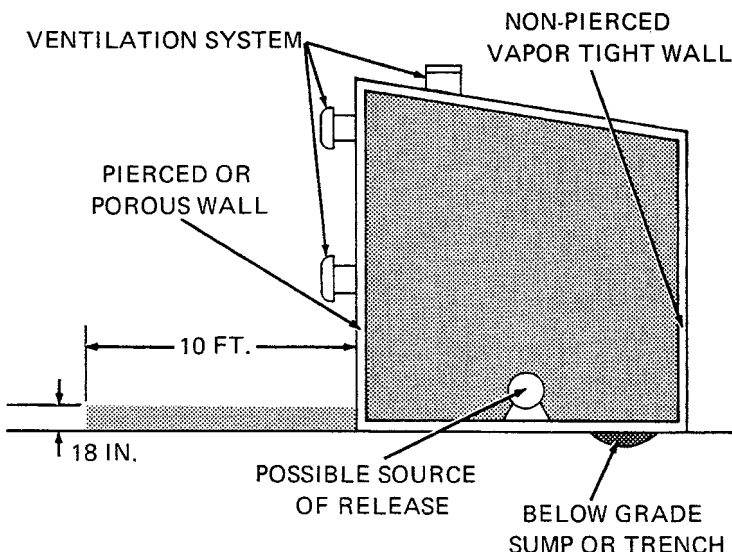
Because the building is adequately ventilated, the interior of the
building will be identified as a Division _____
area.

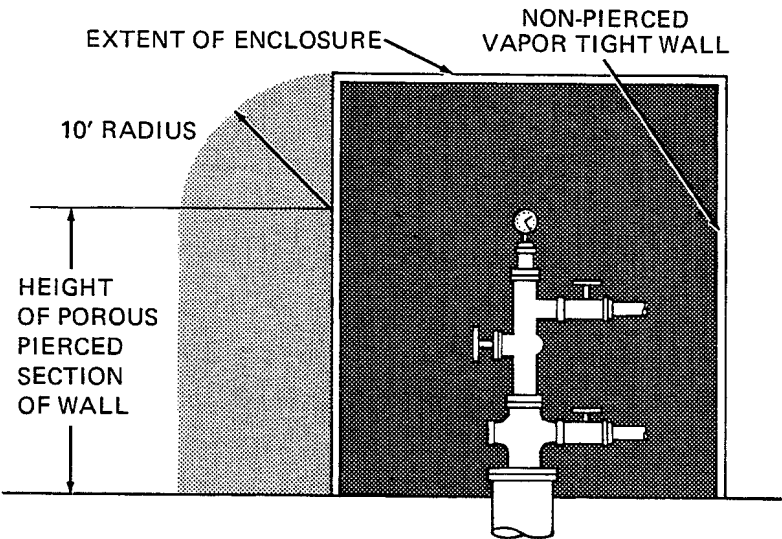31. This drawing shows a similar pump or compressor installation.

NON-PIERCED
VAPOR TIGHT WALL

10 FT. RADIUS

HEIGHT OF
POROUS
PIERCED
SECTION
OF WALL

POSSIBLE SOURCE OF RELEASE

But this building is not adequately _____.

32. Vapors or gases could concentrate (on the floor of the building / throughout the entire height of the building).

33. So, the entire building interior is classified as Division _____.

34. Here is another flowing well installation.

NON-PIERCED
VAPOR TIGHT WALL

EXTENT OF ENCLOSURE

10′ RADIUS

HEIGHT
OF POROUS
PIERCED
SECTION
OF WALL

Unlike the wellheads shown previously, this one is _____.

35. There is no mechanical _____ system.

36. So, the entire enclosure must be rated as Division _____.

37. Classify these areas according to Division 1 or Division 2:

Concrete cellar around flowing well installation.

(1 / 2)

Three-foot radius around the stuffing box on a beam pumping well.

(1 / 2)

Surface of the liquid in a flammable liquid storage tank.

(1 / 2)

Vents for liquid vapors or gases.

(1 / 2)

An adequately ventilated building used to house a gas compressor.

(1 / 2)

38. A lease operator is not responsible for the actual placement of permanent electrical installations.

But, if a lease operator recognizes that an electrical installation in a Class I area does not meet Class I requirements, he should notify his _____.

39. An operator is also responsible for making sure that _____ electrical tools such as drills meet the requirements of the area in which the operator is working.

40. The lease operator can do his part to insure that electrical equipment is:

_____ approved for use in the area in which it is installed.

_____ located as far away from a Class I area as possible.

THE END