



PERMIT TO SUPPLY APPLICATION CHECKLIST FOR WELLHEAD PROTECTION AND UPPER TERMINAL WELL CONSTRUCTION

APPLICANT'S NAME: _____
 ADDRESS: _____
 CITY: _____ ZIP CODE: _____
 COUNTY: _____ FACILITY NUMBER _____
 FINDING LOCATION: _____
 LEGAL DESCRIPTION: _____ /4, _____ /4, _____ /4, of Section _____ T- _____ R - _____
 I. M. / C. M., _____
 TYPE OF PROPERTY: Residential ; Commercial ; Industrial ; City owned property
 TOTAL DEPTH OF WELL: _____ feet
 DEPTH OF WELL CASING: _____ feet
 TYPE OF AQUIFER: Confined: _____ or Unconfined: _____

A. Wellhead Protection

Check all the potential sources of contamination listed below (within 300 feet of the well). In the space provided, indicate how many and distance from the proposed well(s).

<u>POTENTIAL SOURCE</u>	<u>NUMBER</u>	<u>DISTANCE (FEET)</u>
1. Abandoned and or active oil/gas well	_____	_____
2. Abandoned water well	_____	_____
3. Above ground storage tank	_____	_____
4. Airport	_____	_____
5. Animal Feedlot	_____	_____
6. Asphalt Plant	_____	_____
7. Auto repair/body shop	_____	_____
8. Barns/sheds	_____	_____
9. Body contact activities	_____	_____
10. Cemetery	_____	_____
11. Chemical production/mixing storage	_____	_____
12. Confined animal facility	_____	_____

<u>POTENTIAL SOURCE</u>	<u>NUMBER</u>	<u>DISTANCE (FEET)</u>
13. Dairy	_____	_____
14. Dump/landfill	_____	_____
15. Fertilizer/pesticide storage-commercial	_____	_____
16. Fertilizer/pesticide storage-farm	_____	_____
17. Golf Course	_____	_____
18. Grain storage bin	_____	_____
19. Holding pond/lagoon	_____	_____
20. House	_____	_____
21. Injection well	_____	_____
22. Irrigation operation	_____	_____
23. Machine shop - commercial	_____	_____
24. Machine shop - farm	_____	_____
25. Major highway, road, and/or railroad	_____	_____
26. Military base/depot	_____	_____
27. Mining	_____	_____
28. Municipal sewer line	_____	_____
29. Oil/gas pipeline	_____	_____
30. Plant nursery and/or greenhouse	_____	_____
31. Recreational activities	_____	_____
32. Refinery	_____	_____
33. Road salt storage	_____	_____
34. Septic system	_____	_____
35. Service/Gas system	_____	_____
36. Sewage plant	_____	_____
37. Storm sewer	_____	_____
38. Underground storage tank	_____	_____
39. Other (specify)_____	_____	_____

B. Upper Terminal Construction

Please place a checkmark by the appropriate answer. Any additional information about the question may be provided in the comment box.

1. Is the well a pitless unit? YES NO UNKNOWN
2. Is the well a pitless adapter? YES NO UNKNOWN
3. Does the casing extend at least 12 inches above the well house floor or concrete apron?
YES NO
Comments: _____
4. Is the well located within the hundred year flood plain? YES NO UNKNOWN
Comments: _____
5. Is the top of the casings sealed with a sanitary well seal to properly protect against entrance of contamination into the well? YES NO UNKNOWN
6. Are all control valves and appurtenances located above the well floor, YES NO
Comments: _____

7. Is the well equipped with a check valve, a shutoff valve, a pressure gauge, a flow meter, and a smooth nosed sampling tap located upstream of the shutoff valve and at a point where positive pressure is maintained? YES NO UNKNOWN
 Comments: _____
8. Is the well equipped with an air relief valve located upstream from the check valve? YES
 NO UNKNOWN
9. Does the exhaust/relief piping terminate in a down-turned position at least 18 inches above the floor, and is it covered with a 24 mesh corrosion resistant screen, YES NO
 Comments: _____
10. Is the well valved to permit test pumping, pumping to waste and control of the well, YES
 NO UNKNOWN
 Comments: _____
11. Are all valves, pipes and other appurtenances located within a well house? YES NO
 UNKNOWN
 Comments: _____
12. What are the dimensions of the well house? Length _____, Width _____, Height _____
 UNKNOWN
13. Is the discharge piping anchored to prevent movement, YES NO UNKNOWN
14. Does the well piping ever experience surge or water hammer? YES NO
 UNKNOWN
15. Is the well in any way directly connected to a sewer? YES NO UNKNOWN
16. Is the well easily accessible during all weather conditions? YES NO
 Comments: _____
17. Does the casing contain a vent? YES NO UNKNOWN
 If no, Please describe the reasoning below _____
18. If the well casing does have a vent is it constructed of 1 ½ inch diameter metal pipe and fitted into the well cap or pump base so as to form a water-tight connection, YES NO
 UNKNOWN
 Comments: _____
19. Is the casing vent terminated in a full 180-degree bend not less than 24 inches above the well floor slab or apron? YES NO
 Comments: _____
20. Does the vent contain a corrosion resistant screen on the opening, and are the openings on the screen larger than 24-mesh? YES NO
 Comments: _____
21. Does the well contain an accurate draw-down gauge, air pipe, direct measurement tube, or other access for measuring the water level in the well? YES NO
 Comments: _____
22. If the well contains an air pipe which passes through the pump base, is the connection between the air tube and the pump base watertight? YES NO UNKNOWN
23. Does the tube for direct measurement extend 24 inches above the well floor slab, and is it tightly capped with a bolted flange or a screwed cap. YES NO
24. Is the water equipment provided for water level measurement corrosion resistant? YES
 NO UNKNOWN

25. Is there any treatment involved? YES NO

Comments: _____

26. Can birds get into the well house or well itself? YES NO

C. Distribution Waterlines / NA

1. Specifications:

a. Material	Applicable Standard	Class	Pressure Rating
Cast Iron	_____	_____	_____
Ductile Iron	_____	_____	_____
PVC	_____	_____	_____
HDPE	_____	_____	_____
Other	_____	_____	_____

b. Minimum Depth of Cover (30 inches minimum): _____ UNKNOWN

c. Pressure and Leakage Testing in accordance with AWWA C-601? Yes ; No .
UNKNOWN

d. Disinfection Procedures in accordance with AWWA C-651? Yes ; No .
UNKNOWN

e. Reaction blocking is provided at all bends, tees, and hydrants? Yes ; NO .
UNKNOWN

f. Installation of waterlines meets AWWA and Oklahoma DEQ construction standards?
Yes ; No . UNKNOWN

2. Does this water line project involve construction along any state or federal highway? Yes ; No . If yes, has the Oklahoma Department of Transportation (ODOT) been notified, and, do the plans show the location of all affected utilities on file with ODOT? Yes ; No UNKNOWN .

3. Minimum horizontal separation between water and sewer lines is 10 feet? Yes ; No UNKNOWN . If no, please indicate minimum possible horizontal separation: (If 10 feet of separation is not possible, the water line must be constructed in a separate trench and the sewer line designed, constructed, and tested as water line pipe in accordance with OAC 252:656-5-4[c]).

Comments: _____

4. Minimum horizontal separation between plastic water lines and gasoline storage tanks (including appurtenances) is at least 50 feet? Yes ; No UNKNOWN . If no, cast iron must be used for water line pipe and in no case be closer than 10 feet to any part of the storage tank system.

Comments: _____

5. Minimum horizontal separation between water and all parts of septic tanks and absorption fields, or other sewage treatment and disposal system is 15 feet? Yes ; No UNKNOWN .

Comments: _____

6. Minimum horizontal separation distance between waterlines existing or future storm sewers, raw water, oil and gas (includes natural gas), and buried electric lines is 10 feet? Yes ; No UNKNOWN . If no, the minimum horizontal separation for storm sewer lines is _____ feet, raw waterlines is _____ feet, oil & gas lines is _____ feet, and buried electric lines is _____ feet.

7. Where waterlines and sewer lines intersect the minimum vertical separation (edge to edge) is _____ inches.
Comments: _____
8. Hydrants or other flushing devices capable of flow velocities of at least 2 feet per second in the waterline are installed at all dead-ends? Yes ; No UNKNOWN .
9. The proposed waterline system is designed to maintain a minimum pressure of 25 psi at all points under all conditions of flow? Yes : No UNKNOWN
10. Number of service connections to be served by this waterline after the construction is complete: _____.
11. The normal static pressure throughout the area to be served will range from _____ to _____ psi.
12. The normal dynamic pressure throughout the area to be served will range from _____ to _____ psi.
13. Flushing hydrants that discharge above the ground surface are provided for dead-end lines? Yes ; No UNKNOWN .
14. Hydrants are provided at each intersection and at intermediate points so spacing does not exceed 600 feet? Yes ; No UNKNOWN .
15. Hydrants should have one (1) 4 ½ inch pumper outlet, not less than two (2) 2 ½ inch hose outlets. Yes ; No ; UNKNOWN .
16. Hydrants, with 4 ½ inch pumper outlets are to be connected to mains smaller than 6 inches? Yes ; No . If Yes, explain _____
17. Drains from hydrant barrels do not connect to any sanitary sewer or storm drain? Yes ; No UNKNOWN .
18. Are there any cross connections between the public water supply and any sanitary sewer or storm drain? Yes ; No UNKNOWN .

D. Water Storage Facilities / NA

1. Water storage tank is located near centers of high demand? Yes ; No UNKNOWN .
2. One hundred year flood plain elevation: _____ UNKNOWN .
3. Type of storage tank(s): _____.
4. Hydraulic analysis is included? Yes ; No UNKNOWN .
5. The normal static pressure in the receiving line is _____.
6. The normal dynamic pressure in the receiving line is _____.
7. Base elevation: _____.
8. Low water level elevation: _____.
9. Low water level elevation of any other water storage facilities on the distribution system: _____, _____, _____, _____.
10. High water level elevation: _____.
11. High water level elevation of any other water storage facilities on the distribution system: _____, _____, _____, _____.
12. Level controls are provided? Yes ; No UNKNOWN , If No explain: _____
13. A vent is provided? Yes ; No UNKNOWN .
14. Tank is equipped with an overflow which is brought down to an elevation between 12 and 24 inches above the ground surface? Yes ; No UNKNOWN .

15. Separate inlet and outlet lines that provide for positive circulation are provided?
 Yes ; No UNKNOWN , If no explain: _____
16. The inlet line terminates at a point between 30% and 50 % of the tank height? Yes ; No
 UNKNOWN .
17. A means of bypassing the tank is provided? Yes ; No UNKNOWN .
18. Convenient access to the interior of the tank for cleaning and maintenance is provided?
 Yes ; No .
19. Type of paint used: _____; Manufacturer _____.
20. Paint proposed is listed by the National Sanitation Foundation as meeting the ANSI/NSF standards for contact with potable water? Yes ; No UNKNOWN .
21. Disinfection in accordance with AWWA C-652 is provided? Yes ; No .
- Comments: _____
22. Fencing is provided for protection from trespass? Yes ; No .
- Comments: _____

Certification: I certify that, to the best of my knowledge, all the information provided in this report form is correct and no significant information necessary for a proper evaluation of the project has been omitted:

 Signature of Owner/Operator _____
 Date

 Environmental Specialist Signature _____
 Employee ID # _____
 Date