

Field Office _____ Date ___/___/___
 Land Owner _____ County _____
 Planned by _____ Checked by _____ Approved by _____

ENGINEERING PLANNING, DESIGN, AND CONSTRUCTION DOCUMENTATION

Check items that pertain to the planned water well, fill in the blank or circle word as appropriate.

1. This design is for a new, retrofit or existing water well.
2. The purpose of the well is _____.
3. The planned water well demand is _____ GPM and _____ GPD.
Fill in the information, as needed, below:

	GPM	Pump Time (Hr.)	Gallons/Day
Livestock			
Poultry			
Micro-Irrigation*			
Sprinkler Irrigation*			
Dairy Use			
Greenhouses			
Processing Stations			
Other			
Total			

*A well for an irrigation system shall yield a minimum of 125% of the irrigation water flow rate in order to prevent excessive drawdown.

4. The estimated water well yield is based on the:
 - Water Well Report Geologist Report Water Well Test Other _____
 - a. The estimated yield is _____ GPM;
 - b. The maximum allowable pump hours per day is _____ HR; (Table I)
 - c. The total yield volume is _____ GPD. (3a. x 3b. x 60)
5. The "Well Investigation Report Request" (WV ENG 642-A), reliable local information and the history of wells in the area has been reviewed and evaluated.
6. The owner documents that there are no known contamination sources or wells near to the proposed well site as shown on the plan drawing and as outlined below.

7. The proposed well site is in out of the 25-year floodplain.
8. Verify the planned well will provide 125% of the Estimated Daily Water Well Rate (GPM) if used for irrigation water. If it does, proceed to the next item, if not stop and re-evaluate the request.
9. The attached plan map (bar scale, north arrow, elevations) locates the proposed or existing well(s) and notes the distance from the existing and potential sources of pollution (affecting the water source), property lines, pipelines, utilities, roads, waste treatment areas, streams, flood plains, etc. (Reference Table II for water well set back requirements.)
10. The landowner will notify all above and below ground utilities (ENG.-5) and contact MISS UTILITY (1-800-245-4848) for all utilities to be marked prior to construction commencement.
11. The planned well's pump energy will be supplied by diesel electric (single phase) electric (three phase) solar wind other source_____.
12. The planned well site is accessible for maintenance, repair or other necessary work and does or does not require a planned access road to the site.
13. The planned well has a minimum 4 inch thick concrete slab extending at least 2 feet in all directions from the casing for protection.
14. Note all associated Conservation Practices: Pumping Plant (533) Critical Area Planting (342) Fence (382) Access Road (560) Pipeline (516) Watering Facility (642) Other _____
15. Engineering Job Class and signatures for practice implementation approval complete.
16. WV-Eng-63 Water Well drawing and associated maps or information, and the WVENG WS 642A are completed.
17. Material quantities and estimates or water well drillers certification information included.
18. Permit Required WV Dept. of Human and Health Resources Local Health Dept. County State Federal Other _____
19. The landowner has been informed that they are responsible for the drilling and protection of water well, shall secure all necessary permits from West Virginia Department of Health and Human resources – Environmental Engineering Division (WV-DOHHR), shall contract with a WV Certified Well driller for well production and shall notify NRCS prior to commencement.
20. **ANY DEVIATION FROM THE WATER WELL CONSERVATION PRACTICE STANDARD (642) CONSERVATION REQUIRES VARIANCE APPROVAL FROM THE STATE CONSERVATION ENGINEER.**

Estimated Water Well Yield (GPM)	Maximum Pumping Hours
Less than 5	4
5 to less than 8	6
8 to less than 16	8
16 to less than 20	10
Greater than 20	14
<p>Note: A well requiring more than 20 GPM or requiring in excess of 14 hours/day pump time shall be yield tested (contact the State Geologist for yield test criteria), unless other evidence exists documenting the volume and recharge capabilities of the well.</p>	

Source	Minimum Distance (Feet)
Property Lines, Existing Building or Foundation	10
Streams, Rivers and Impoundments ^{1/}	25
Sewers and Drains (Watertight) ^{2/}	25
Drains (Non-watertight)	50 (100) ^{3/}
Septic Tanks, Holding Tanks, Privies (Vault)	50 (100) ^{3/}
Sewage Absorption Fields, Privies (Vault)	100
Sewers and Drains (Non-Watertight)	100
Barnyard/Feeding, Watering Areas	100
Cemeteries, Open Manure Pits, Existing Wells	100
Buried Oil, Gasoline Tanks (no leak)	50 (100) ^{3/}
Chemical Storage Tanks (no leak)	50 (100) ^{3/}
Silo or Seepage Pit, Storage or Preparation Site	150
Storage or Preparation Site for Fertilizers or Pesticides	150
Other Known or Potential Contamination Sites	150
Lagoons, Waste Storage Ponds	300
Chemical Storage Areas	300
<p>^{1/} The upper well casing shall extend one foot above the twenty-five (25) year flood level or greater according to WV-Department of Health & Human Resources (DOHHR) regulations.</p>	
<p>^{2/} Sewer and drain materials shall be of potable water main standards, installed, and hydrostatically tested according to WV-DOHHR regulations.</p>	
<p>^{3/} The distance noted in parenthesis is required when a water well is lower in elevation than the source of pollution or contamination referenced in Table II.</p>	