



Water Well

Conservation Practice Specification Sheet

642 WA-CS

Natural Resources Conservation Service, Washington

November 2010

Client			
Location			
Farm Tract/Field		Legal Description	
County		Job Class	

Job sheet prepared by:	Title:	JAA:	Date:
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Purpose (check all that apply)	
<input type="checkbox"/> Provide water for livestock	<input type="checkbox"/> Facilitate proper use of vegetation on rangeland
<input type="checkbox"/> Provide water for wildlife	<input type="checkbox"/> Facilitate proper use of vegetation on pastureland
<input type="checkbox"/> Provide water for irrigation	<input type="checkbox"/> Facilitate proper use of vegetation on wildlife areas
<input type="checkbox"/> Provide general water needs for farm/ranch operations	<input type="checkbox"/>

Criteria (Well driller shall check applicable box)	
Pump Test	<input type="checkbox"/> Pump test verifying that the well can produce _____ gpm as required to meet the water needs based for the conservation practice.
Laws and Regulations	<input type="checkbox"/> Complies with all local, state, tribal or federal laws and regulations
Well Head Protection	<input type="checkbox"/> Well located at safe distances from pollution sources based on site-specific hydrogeologic conditions
	<input type="checkbox"/> Surface runoff and drainage diverted away from the wellhead
Casing Diameter	<input type="checkbox"/> Sized to ensure up hole water velocity of 5 feet per second or less
Casing Material	<input type="checkbox"/> Steel well casing; - Meets or exceeds ASTM A 589 - Steel casing is required for driven wells - Casing material shall not be of dissimilar materials
	<input type="checkbox"/> Plastic well casing (ABS, PVC, SR); - Meets or exceeds ASTM F 480
	<input type="checkbox"/> Filament wound fiberglass casing (RTRP); - Meets or exceeds ASTM D 2996 - Joints shall meet ASTM F 480, Section 3.8 - Testing for long term cyclic pressure strength, short term rupture strength as outlined in ASTM D 2996 is not required
	<input type="checkbox"/> Fiberglass Pressure pipe (RPMP); - Meets or exceeds ASTM D 3517
Casing Strength	<input type="checkbox"/> Well casing wall thickness sufficient to withstand all anticipated static and dynamic pressures
Joint Strength	<input type="checkbox"/> Joint have adequate strength to carry the load due to the casing length, or the casing shall be mechanically supported
Screen	<input type="checkbox"/> Well screens installed in any aquifer material likely to produce silt or sand
	<input type="checkbox"/> Average entrance velocity of the water less than or equal 0.7 foot per second
	<input type="checkbox"/> Maximum drawdown shall not be less than the top of the highest screen or pump intake
	<input type="checkbox"/> A copy of the manufacturer's screen specification shall be attached to this form

Criteria (Well driller shall check applicable box) - Continued

Seals (Packers)	<input type="checkbox"/> Telescoped screen assemblies shall be provided with one or more sand tight seals between the top of the telescoped screen assembly and casing
Casing Installation	<input type="checkbox"/> Casing shall extend at minimum of 2 feet into stable material or to the top of the screen
	<input type="checkbox"/> Well shall be cased a minimum of 12 inches above the ground surface
	<input type="checkbox"/> Top of the casing shall be 2 feet above the 100-year frequency flood
Grouting and Sealing	<input type="checkbox"/> The annulus surrounding the permanent well casing as the upper terminus of the well shall be filled with mortar containing expansive hydraulic cement (ASTM C 845), or bentonite based grout
	<input type="checkbox"/> Length of the grout seal shall be no less than 18 feet and not less than the minimum length as required by state or local laws
	<input type="checkbox"/> A positive seal (grouted in place) or packer shall be provided between the casing and the less pervious material overlying the aquifer of artesian wells, and in all aquifers where comingling of water is undesirable
Access Port	<input type="checkbox"/> An access port is required and shall have a minimum diameter of 0.5 inches
Disinfection	<input type="checkbox"/> Well shall be disinfected following construction
	<input type="checkbox"/> Method of disinfection shall comply with all local, state, tribal and federal regulations.
Well Report	<input type="checkbox"/> A well report shall be filed with the Department of Ecology and shall be attached to this form

Comments: _____

Client's Acknowledgement (To be signed after Job sheet completed and before practice installation.)

By signing below, I acknowledge that I:

- have reviewed the site specific installation requirements in this specification sheet and have an understanding of them;
- will make no changes to the requirements, without prior written approval of the Natural Resources Conservation Service (NRCS);
- will obtain all necessary permits and/or rights, and comply with all ordinances and laws pertaining to the installation of the conservation practice, prior to the start of installation; and
- will assume responsibility for notifying all utilities affected by the installation of the conservation practice.

Signature	Date

Certified Well Driller Installation Certification

(To be completed after practice installation)

By signing below, I certify that:

- the practice has been installed in accordance with the above specification requirements, and
- I am currently a Washington State licensed well driller. License Number: _____.

Signature	Date
Print Name	Title

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