

and before the officer designated, the claimant will appear with two of the witnesses named in the notice and make proof of the reclamation, cultivation, and improvement of the land. The testimony of each claimant should be taken separately and apart from and not within the hearing of either of his witnesses, and the testimony of each witness should be taken separately and apart from and not within the hearing of either the applicant or of any other witness, and both the applicant and each of the witnesses should be required to state, in and as a part of the final-proof testimony given by them, that they have given such testimony without any actual knowledge of any statement made in the testimony of either of the others. In every instance where, for any reason whatever, final proof is not submitted within the 4 years prescribed by law, or within the period of an extension granted for submitting such proof, a statement should be filed by claimant, with the proof, explaining the cause of delay.

The final proof may be made before any officer authorized to administer oaths in public land cases, as explained in § 1821.3-2 of this chapter.

(e) *Showing as to irrigation system.* The final proof must show specifically the source and volume of the water supply and how it was acquired and how it is maintained. The number, length, and carrying capacity of all ditches, canals, conduits, and other means to conduct water to and on each of the legal subdivisions must also be shown. The claimant and the witnesses must each state in full all that has been done in the matter of reclamation and improvements of the land, and must answer fully, of their own personal knowledge, all of the questions contained in the final-proof blanks. They must state plainly whether at any time they saw the land effectually irrigated, and the different dates on which they saw it irrigated should be specifically stated.

(f) *Showing as to lands irrigated and reclaimed.* While it is not required that all of the land shall have been actually irrigated at the time final proof is made, it is necessary that the one-eighth portion which is required to be cultivated shall also have been irri-

gated in a manner calculated to produce profitable results, considering the character of the land, the climate, and the kind of crops being grown. (Alonzo B. Cole, 38 L.D. 420.) The cultivation and irrigation of the one-eighth portion of the entire area entered may be had in a body on one legal subdivision or may be distributed over several subdivisions. The final proof must clearly show that all of the permanent main and lateral ditches, canals, conduits, and other means to conduct water necessary for the irrigation of all the irrigable land in the entry have been constructed so that water can be actually applied to the land as soon as it is ready for cultivation. If pumping be relied upon as the means of irrigation, the plant installed for that purpose must be of sufficient capacity to render available enough water for all the irrigable land. If there are any high points or any portions of the land which for any reason it is not practicable to irrigate, the nature, extent, and situation of such areas in each legal subdivision must be fully stated. If less than one-eighth of a smallest legal subdivision is practically susceptible of irrigation from claimant's source of water supply and no portion thereof is used as a necessary part of his irrigation scheme, such subdivision must be relinquished. (43 L.D. 269.)

(g) *Showing as to tillage of land.* As a rule, actual tillage of one-eighth of the land must be shown. It is not sufficient to show only that there has been a marked increase in the growth of grass or that grass sufficient to support stock has been produced on the land as a result of irrigation. If, however, on account of some peculiar climatic or soil conditions, no crops except grass can be successfully produced, or if actual tillage will destroy or injure the productive quality of the soil, the actual production of a crop of hay of merchantable value will be accepted as sufficient compliance with the requirements as to cultivation. (32 L.D. 456.) In such cases, however, the facts must be stated and the extent and value of the crop of hay must be shown, and, as before stated, that same was produced as a result of actual irrigation.

(h) *Showing as to water right.* (1) In every case where the claimant's water

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right is founded upon contract or purchase the final proof must embrace evidence which clearly establishes the fact and legal sufficiency of that right. If claimant's ownership of such right has already been evidenced in connection with the original entry or some later proceeding, then the final proof must show his continued possession thereof. If the water right relied on is obtained under claimant's appropriation, the final proof, considered together with any evidence previously submitted in the matter, must show that the claimant has made such preliminary filings as are required by the laws of the State in which the land is located, and that he has also taken all other steps necessary under said laws to secure and perfect the claimed water right. In all cases the water right, however it be acquired, must entitle the claimant to the use of a sufficient supply of water to irrigate successfully all the irrigable land embraced in his entry, notwithstanding that the final proof need only show the actual irrigation of one-eighth of that area.

(2) In those States where entrymen have made applications for water rights and have been granted permits but where no final adjudication of the water right can be secured from the State authorities owing to delay in the adjudication of the watercourses or other delay for which the entrymen are in no way responsible, proof that the entrymen have done all that is required of them by the laws of the State, together with proof of actual irrigation of one-eighth of the land embraced in their entries, may be accepted. This modification of the rule that the claimant must furnish evidence of an absolute water right will apply only in those States where under the local laws it is impossible for the entryman to secure final evidence of title to his water right within the time allowed him to submit final proof on his entry, and in such cases the best evidence obtainable must be furnished. (35 L.D. 305.)

(3) It is a well-settled principle of law in all of the States in which the desert land acts are operative that actual application to a beneficial use of water appropriated from public streams measures the extent of the right to the

water, and that failure to proceed with reasonable diligence to make such application to beneficial use within a reasonable time constitutes an abandonment of the right. (Wiel's Water Rights in the Western States, sec. 172.) The final proof, therefore, must show that the claimant has exercised such diligence as will, if continued, under the operation of this rule result in his definitely securing a perfect right to the use of sufficient water for the permanent irrigation and reclamation of all of the irrigable land in his entry. To this end the proof must at least show that water which is being diverted from its natural course and claimed for the specific purpose of irrigating the lands embraced in claimant's entry, under a legal right acquired by virtue of his own or his grantor's compliance with the requirements of the State laws governing the appropriation of public waters, has actually been conducted through claimant's main ditches to and upon the land; that one-eighth of the land embraced in the entry has been actually irrigated and cultivated; that water has been brought to such a point on the land as to readily demonstrate that the entire irrigable area may be irrigated from the system; and that claimant is prepared to distribute the water so claimed over all of the irrigable land in each smallest legal subdivision in quantity sufficient for practical irrigation as soon as the land shall have been cleared or otherwise prepared for cultivation. The nature of the work necessary to be performed in and for the preparation for cultivation of such part of the land as has not been irrigated should be carefully indicated, and it should be shown that the said work of preparation is being prosecuted with such diligence as will permit of beneficial application of appropriated water within a reasonable time.

(4) Desert-land claimants should bear in mind that a water right and a water supply are not the same thing and that the two are not always or necessarily found together. Strictly speaking, a perfect and complete water right for irrigation purposes is confined to and limited by the area of land that has been irrigated with the water provided thereunder. Under the various State