



Idaho Department of Water Resources

MEMORANDUM

File: 21-13102 Natural Guardian
Date: July 14, 2009
Subject: Proof of Priority

Claimant filed a late claim with a priority date of 9-24-1912 and 7 cfs. The claim referenced Permit 8990 (21-2054) and map was proof of priority. Permit 8990 included Taylor Creek as one of the sources but doesn't reference it anywhere else in the permit.

Further research resulted in a letter from A.S. Anderson, Licensed State Engineer, on August 5, 1915. The letter explains the "Hagenbarth" map which provides the POD bearings he surveyed for permit 8990. Based on this evidence, the claimed priority date of 9-24-1912 will be recommended.

I checked the rates for all N.G. water rights and all except for 21-30B, 21-10011, and 21-12843 were issued at the standard rate. Those three rights were decreed or licensed at a reduced rate. If I calculate 21-13102 at IDWR standard rate, the rate would be 5 cfs (248 acres X 0.02 cfs = 4.96).

From the desk of Denise Kidman

Spencer, Idaho, August 5, 1915

State Engineer,

Boise, Idaho

Dear Sir:

Under authority conferred by you and in accordance with your instructions, I herewith submit report on Sheridan Reservoir under amended Permit No. 3143.

This irrigation system irrigates lands located in Sheridan Valley about thirty-six miles easterly from Spencer, Idaho, and in the northern part of Fremont County, Idaho, in Township 13, North, Ranges 40 and 41, E. B. M.

This survey was made with a W. & L. E. Gurley transit, having 5-1/2 inch horizontal plate, with double verniers, reading 30 single minutes; also fitted with solar attachment, which I checked with observations on Polaris and the Sun and found correct and the levels were run with a Gurley 20 inch wye level.

The line of said canals as represented by the field notes is down the right bank of said canals and the survey of reservoir was made by deflecting angles on level line and measuring same. The survey of canals and laterals represents a grade line best adapted to fit the ground and economic construction.

All bearings are true bearings. The magnetic declination varies from 16° to 20° east on account of the presence of magnetic mineral in the ground. Wherever a line of the public survey is crossed by survey line of canal or reservoir, the bearing and distance of the nearest public corner from the point of intersection is given.

The survey was begun on June 19, 1915, and ended August 15, 1915.

I made four cross sections in soundings of the reservoir in addition to the one made at the dam itself and found the average depth to be 14 feet.

I found the dam to be constructed strictly in accordance with the specifications with a properly rip-rapped water surface.

It is equipped with two spillways:

Spillway No. 1 is 12 feet wide and 5 feet deep, with a grade of 5 feet to the mile, and its level at the head is five feet below the top of the dam.

Spillway No. 2 is 10 feet wide through solid rock, with a fall of 25 feet in 100 yards and the intake is located three feet below the top of the dam. This Spillway No. 2 was put in as a safety factor in case of cloud bursts and will carry a tremendous amount of water.

The main distributing canal is 10 feet wide, with 7 laterals, and affords ample avenue for distribution of water.

Respectfully,
August 5, 1915

The bed of reservoir is ideally located and consists of a loam and silt bottom, practically impervious to percolation, as has been demonstrated by fifteen years of use. The evaporation is taken care of by the inflow of constant springs which are owned by the owners of the reservoir.

The total area of the reservoir as at present constructed is 330.5774 acres and it has a capacity of 4,628.06 acre feet.

There are two feeder canals:

No. 1 From Dry Creek, which is 10 ft. wide and 2 ft. deep, with a fall of 20 ft. plus per mile.

Feeder canal No. 2 from Sheridan Creek is 6 ft. wide by 2 ft. deep with a fall of 32 feet plus per mile.

There is sufficient run-off in spring floods and winter storage from Dry Creek and Sheridan Creek to fill a reservoir twice the size of the one under consideration.

I have carefully examined the permit under which this reservoir is constructed and find that there are ample facilities for applying water to beneficial use for all the lands applied for thereunder.

All work has been conscientiously and thoroughly done and I unhesitatingly approve the same.

Yours truly,

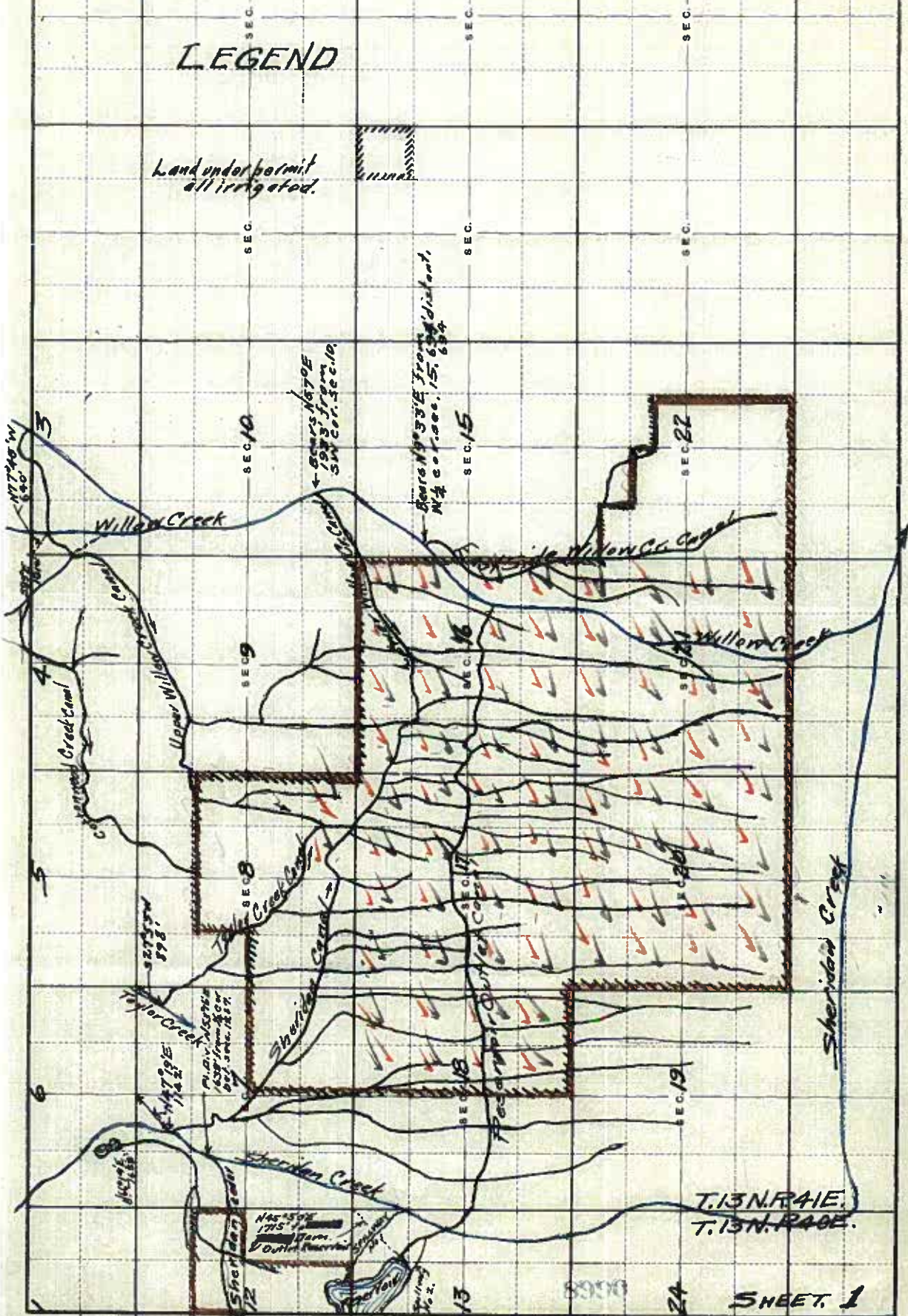
A. S. Anderson

Licensed State Engineer.

Home P. O. Address, Menan, Idaho.

LEGEND

Land under permit
all irrigated.



Prepared by A.S. Anderson