

TUMALO REPORT COVERS HALF YEAR

Laurgaard Gives Desert Land Board Detailed Account of Results Accomplished up to June 30--Cost to That Date is \$331,447

In presenting his June report to the Desert Land Board Engineer Laurgaard of the Tumalo Project gave also a summary of work accomplished during the first six months of the calendar year. Although a large part of the report is taken up with matters of engineering and administrative details there are many paragraphs of interest in a more general way which are here extracted.

Speaking of the month of June the report says:

The usual routine work has been carried on with a full force under very favorable weather conditions. The construction work has been carried on from Camps 5, 6, 7, 8 and 9, and has been confined principally to the lateral system and structures under the Wimer canal; lateral system under main canal from reservoir; Bull Creek dam and spillway and Tumalo dam and outlet works.

The Semi-Annual Report.
The report for the half year takes up the several departments and features of the work beginning with the clerical, accounting and purchasing department.

Of this it says:
During June in the clerical and accounting department several changes took place in the organization as several of the timekeepers and stenographers resigned to take up more permanent positions. The remaining force, however, being now fully organized and well acquainted with their work will be able to take care of the enormous amount of work necessary to carry on operations. During the month 550 letters were written; 10 advertisements sent out, and miscellaneous purchases were made for merchandise covering 300 purchase orders and the preparation of 110 purchase vouchers. The payment of the men on payroll and time check rolls aggregated a total of 503 men, 335 of whom were on the regular payroll at the end of the month, and 173 to whom were issued time checks during the month. The gross amount earned by payroll during the month was \$23,794.78, deductions were, however, made to the amount of \$7,345.61, making the total amount paid during the month for labor alone \$16,449.17.

At the close of June there were on the payroll 335 men and 177 head of horses. During the month 15379 meals were served at an average cost of 21.31 cents each. While this cost may appear rather low, we are pleased to advise that the messes are favoring the men with a high class meal, and no complaints have been registered. This is probably due to the fact that all purchases are made from wholesalers in Portland at a minimum cost, and also to the fact that all the cooks at the present time are very economical and take special pride in serving a high class meal at a minimum cost. During the year 1914 up to June 30th, we have served 73162 meals in our messes at an average cost of 21.59 cents.

Tumalo Dam.

At Tumalo Dam the work during June has consisted principally of building an earth embankment and placing rip rap on the two sides of the dam, excavating the tunnel and bringing the core wall up to the necessary height to facilitate sluicing operations in the dam. The hauling of earth and gravel material from the borrow pit by means of dump wagons and teams has proven quite satisfactory. 14,660 cubic yards of earth was placed in the embankment during June at a cost of 28.3 cents per cubic yard. This cost includes all work in the borrow pit, including the steam shovel, hauling, placing and sluicing and distributing the material in the dam embankment. The embankment proper is now about 43 per cent completed. A very limited amount of rip rap was placed during June, as it has been deemed advisable to delay these operations until the dam is further advanced, when the rip rap can be placed in larger quantities at a reduced unit price. Only 138 cubic yards was placed at an average cost of \$1.25 per cubic yard.

Recapitulation.

Work from January 1st, 1914, to July 1st, 1914.

Clerical, accounting and purchasing department. In this department for this period an enormous amount of work was turned out with comparatively small force. The organization in charge of this work consists of one chief clerk, a bookkeeper, one storekeeper, who also has charge of all equipment and supplies, and two stenographers, one of whom attends to the correspondence and filing, while the other is engaged in writing vouchers and a small amount of correspondence.

These men are now all well trained and as a result the maximum amount of work is produced through a minimum of effort. During the first period of 1914 all the work in connection with the purchasing and accounting necessary to establish camps for approximately 350 men has been disposed of; the equipment record has been brought to date, and the system of charging the depreciation on equipment has been changed to a system of charging all equipment direct to the features upon which they are used; about 4500 letters were written during this period; 1985 pay checks were written aggregating approximately \$65,000; 129 official photographs were taken; 39 advertisements for merchandise and equipment was sent out, and 426 purchase orders were issued and placed over this period. Some of the most important purchases for the past six months may be enumerated as follows. About 30,000 pounds of beef, three carloads of groceries, 200 barrels of flour were purchased for the messes at the various camps, and 68 live pigs were

also obtained and distributed among the various camps to be fattened by the refuse from the camps, and subsequently killed for meat. * * * *

Totals Expended.

Attached to this report are financial statements, one showing trial balance giving the total amount expended to date as \$331,447.86. From referring to the amount expended up to January 1st, 1914, we find during the past six months we have expended on the Project a total of \$174,347.31, leaving \$157,100.55 still available from the appropriation to be expended from July 1st to December 31st, of this year. It may be of interest, however, to note that during the past six months, in addition to the above amounts we have expended \$25,410.03 which is profit on our messes and mercantile store. Of the total amount expended to date of \$331,447.86, only \$221,565.34 has been directly charged to the various features on the Project.

Many Maps Made.

The hydrographs of Tumalo Creek have been kept up to date, likewise the topographic and land classification sheets. Maps have been made of the Project showing all principal roads, canals, dams, and towns, including Laidlaw, Bend, Deschutes and Cline Falls. Other maps have also been prepared showing the various units into which the Project has been divided. Progress profiles of the construction of the feed canal, main canal from reservoir have also been prepared monthly. In addition to the other tracings mentioned it has been necessary to design four wooden bridges.

State Road.

The construction of the new State road around the east side of the reservoir was commenced during the latter part of March, and at the present time is about 80 per cent completed. The plans for this feature call for a roadway passing over the Tumalo dam at the north end of the reservoir and the Bull Creek dam and by-pass at the southern end of the reservoir. The Bull Creek dam at the present time is practically complete so that the bridge over the spillway is now in condition to be opened for traffic. The roadway from the feed canal south joining the main Bend-Sisters road is also complete. The bridge across the feed canal was built in a substantial manner, consisting of concrete piers and steel "I" surmounted by a wooden floor. The road from Bull Creek dam north to Tumalo dam is practically complete with the exception of about 1000 feet north and west of Tumalo dam. This roadway is also practically complete with the exception

of the approach to the dam which involves a heavy thorough cut through solid rock. Up to the present time the work on this road has consisted in the clearing of sage brush and juniper trees of 27 acres of right of way, and the placement of about 7,000 F. H. M. of lumber in culverts.

Report of Irrigation Manager.

The work of transferring all Columbia Southern contracts which have acquired vested water rights to the new form as is being used by the Desert Land Board in this connection has been handled through this department under the direct supervision of the Project Engineer. Owing to the adjudication of the waters of Tumalo Creek and the rulings of the Board of Control an equitable adjustment of these vested water rights has been very difficult, and much of the time of the Project Engineer has been taken up in this work, however,

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Thinking people of every religious creed and political belief should give earnest heed to the expressions of opinion from eminent divines, educators, editors, governors, judges, legislators, and others prominent in every walk of life, who have publicly voiced their sentiments concerning prohibition in words similar to these:

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satisfactory settlements have been made with all local contract holders and with few exceptions non-resident contract holders. To date there has been 132 of this class of contracts executed with fifty-four (54) individuals. These contracts embrace 3422 acres upon which vested water rights have been acquired, and upon which there is a balance due from the old Columbia Southern contracts of \$12,562.68; under the various adjustments 327 acres were entered at \$14.75 per acre, or a total of \$4970.75 and 539.27 acres of waste land at \$2.50 per acre or \$1348.18; in addition 909 acres were contracted for under the new lien, estimating the price under the new lien to be \$40 per acre, or \$36,360.00, the total due from these 132 contracts would be \$44241.61, deducting from this the amounts entered as credits on the various contracts, which totals \$12,464.78 there would be a balance due the Project of \$42,776.83. An itemized summary of those vested rights is herewith attached. In addition to the above there yet remains 17 individuals who have vested water rights to the amount of 531 acres, who have not, as yet, executed the new form of contract, but a large majority of these will be closed up during the month of July. A detailed list of these contracts is also attached. On June 24th the Project Engineer closed contracts with J. E. Wimer, C. H. Spangh and Mrs. L. J. Wimer, whereby they executed contracts for 420 acres of vested water rights which they had acquired through the Wimer-Harrows ditch; they in turn transferring all their rights in that ditch to the State.

Distribution of Water.

On April 15th water was turned through the canals and laterals for irrigation purposes, and since that

time water has been delivered in such quantities as was desired by the settler. The distribution has been accomplished thus far without any serious breaks in the canal with the exception of a break which occurred in the feed canal at Drop No. 2 on May 6th. This was caused by a cavity under the canal, and was in no way occasioned by the first construction.

Cost Summary.

Mr. Laurgaard's summary of costs is as follows:

Referring to the cost sheets attached hereto we find there has been spent up to the present time a total of \$65,691.46 on the distribution system; \$108,864.26 on the feed canal, and \$133,198.66 on the storage works. The feed canal is now all completed so that no further expenditures are estimated for that feature. In connection with the storage works, however, it will probably be necessary to expend the following amounts on the various features:

Tunnel, shaft, gates, etc., complete	\$18,130.00
Core wall	4,660.00
Reservoir roads	2,500.00
Cut off and drain trenches	200.00
Rip rap for Tumalo dam	6,425.00
Tumalo dam embankment	16,000.00
Fencing Tumalo reservoir	1,990.00
Bull Creek dam, cleaning up, etc., at Camp 5	1,000.00
Total	\$49,315.00

15 per cent for administrative and engineering contingencies 7,400.00

Total \$56,715.00

On this feature a total of \$133,200.00 has been expended to date. The total estimated expenditure on storage works \$189,915.00

The total estimated amount of this expenditure was made originally at \$158,526.00

Plus land damages 59,476.00

Total \$218,000.00

Leaving thus a saving of \$28,000 on storage works which may be applied on the distribution system. From our cost sheets we find there has been expended to date a total of \$331,447.00. Estimating that this \$57,000 will be expended on the storage works and from \$5000 to \$6000 on the Crater Creek work we will have approximately \$57,000 more that can be expended during the next six months on the distribution system making a total of approximately \$122,000 that will be expended on this feature.

The results of the construction work on the distribution feature to date are very gratifying, inasmuch as the work is being accomplished less than the estimated so we are very hopeful that the entire distribution system will be completed with the amount of appropriation available.

CHURCH NOTICES

Catholic.
There will be the usual morning service at the Catholic church on Sunday at 10:30 a. m.

Presbyterian.
There will be a slight change in our usual services next Sunday, Sunday school at 10:00 a. m. Preaching at 11. The theme of the morning discourse will be "Regeneration—What is it?" The churches of the city will hold Union meetings on Sunday evenings for a few weeks. The first of these will be next Sunday, August 9, in the M. E. church, hence there will be no services in the evening at the Presbyterian church. All are welcome to worship with us. H. C. Hartranft.

Methodist.
Preaching at 11 a. m. by the pastor. The evening service will be a union service held at 8 o'clock. Rev. H. C. Hartranft will preach, subject "The Unavoidable Jesus." Sunday school 10 a. m. Epworth League 7 p. m. Prayer meeting Thursday 8 p. m. C. A. Smith, pastor.



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