Name City of La Grande

By

Address La Grande Ore

Date filed

Action suspended until

Returned to applicant

Date completed

Date of approval

CONSTRUCTION

Date for beginning

Date for completion

Extended to

Date for application of water

Extended to

PROSECUTION OF WORK

Form "A" filed

Form "B" filed

Form "C" filed

FINAL PROOF

Blank mailed

Proof received

Date certificate issued

Receipt for recording fee No.

Application No. 128.

Permit No. 29

Certificate No. 3200

Stream Index, Page No.

Application Record, Book No.

FEES PAID

Date	Amount	Receipt No.
Total		

FEES REFUNDED

Date	Amount	Check No.

ASSIGNMENTS

Date	To whom	Address	Volume	Page

REMARKS

Form B

NOTICE OF COMPLETION OF CONSTRUCTION

Permit No. 29

Application No. 128

I, city of La Grande, holder of Application No. 128, being Permit No. 29, issued by the State Engineer of the State of Oregon for the appropriation of 7 cu. second feet of the waters of Beaver creek in accordance with the tenor of such permit and the limitations endorsed thereon by the State Engineer, have completed the construction of the works described therein for the application of water to a beneficial use on the 1 day of Jan, 1910, being within the time limitation as fixed in said permit for the completion of construction work.

Remarks: If the works have a less capacity than as described in the permit, or you have definitely abandoned your plan of irrigating any of the lands described in your permit, you should so state in order that our records may not be unnecessarily encumbered.

IN WITNNSS WHEREOF, I have hereunto set my hand this 30 day of December 1911.

City of La Grande Ore (Present Address)

Chas Humphreys City Recorder (Signature of Applicant.)

Fill out, detach, and mail to the Secretary, Board of Control, Salem, Oregon. Form D should be used in reporting progress of work if more than one year has been allowed for completion.

Permit No.

Application No.

Permit No. 29, issued by the State Engineer of the State of Oregon for the appropriation of 7 cu. second feet of the waters of Beaver creek in accordance with the tenor of such permit and the limitations endorsed thereon by the State Engineer, have completely applied the water to a beneficial use, on the 1 day of Jan 1910. being the time limitation as fixed in said permit for the complete application of water to a beneficial use.

Remarks: yes If all of the water granted in the permit had not been fully applied to beneficial use, you should so state, so that subsequent appropriators may have notice.

IN WITNESS WHEREOF, I have hereunto set my hand this 30 day of December 1911.

City of La Grande (Present Address)

Chas Humphreys City Recorder (Signature of Applicant.)

Fill out, detach, and mail to the Secretary, Board of Control, Salem, Oregon.

Permit No. 29 County of Union

Application No. 128

Proof of Appropriation of Water

(In accordance with the provisions of Chapter 216, Laws of Oregon for 1909, and the regulations of the State Water Board thereunder.)

From Beaver Creek Tributary of

1. Name City of La Grande, a municipal corporation
2. Postoffice address La Grande, Oregon.
3. For what purpose is water used? general municipal purposes and domestic uses, (7 cu.ft.) per sec.
4. Did you begin the actual construction of the La Grande Beaver Creek Pipe Line ~~Ditch~~, (or other distributing works described in said permit), on or before June 17, 1910 ?

   Yes
5. Give the date of completion of such construction work About December 24, 1909
6. When was all the water completely applied to the proposed use? Approximately 3,000,000 gal per 24h About December 24, 1909
7. The description of land given below corresponds to that found in your permit covering land to be irrigated, or, if for other purposes, the place of use. In the blank column on the right, headed "No. acres actually irrigated," *fill in the number of acres you have irrigated* in each of the tracts described.

Township	Range	Section	Forty-acre Tract	No. Acres Described in Permit	No. Acres Actually Irrigated
Place of Use:			Within the City of La Grande.		

11. If not, wherein such map is in error .....

12. If the dimensions of your ditch or dam do not correspond to those described in your permit, state what changes have been made, giving dimensions of ditch (or other distributing works)

13. If water is used for power, mining, domestic, municipal, storage, manufacturing, or any other purpose than irrigation, give the extent and method of such use Used for domestic, industrial, and general municipal purposes

STATE OF OREGON,
County of Union } ss.

I, George Garrett, being first duly sworn, depose and say that I have read the above and foregoing proof of appropriation of water; that I know the contents thereof; and that the facts therein stated are true.

IN WITNESS WHEREOF, I have hereunto set my hand this Third day of March, 1921.

George Garrett

Subscribed and sworn to before me this 3 day of March, 1921.

J. E. Stearns
Recorder of the City of La Grande, Oregon.
~~Notary Public for Oregon~~

(Notarial Seal)

~~My commission expires~~

AFFIDAVIT OF WITNESSES

We, W.D.Grandy, and Horace Knapp, of La Grande, Union County, Oregon., being first duly sworn, depose and say that we are well acquainted with the facts and conditions set forth in the foregoing statement relative to proof of appropriation of water under Permit No. 29; that we and each of us have been over and upon each tract described in said proof, and from such personal inspection have knowledge that all necessary ditches, dams and other diversion and distributing works have been constructed, and water used as stated therein; that we have carefully read such proof of appropriation, and that each and every statement contained therein is true to the best of our knowledge and belief.

W.D. Grandy

H. Knapp

Subscribed and sworn to before me this 3rd day of March, 1921.

(Notarial Seal)

J. E. Kearns

Recorder, ~~Notary Public for Oregon~~
City of La Grande, Oregon.

~~My commission expires~~

PROOF OF APPROPRIATION

Permit No. 29

Recording fee paid

Receipt No. 32 32

Priority date: June 4, 1909.

November 23, 1966

Stevens, Thompson, Runyan & Ries, Inc.
5505 S.E. Milwaukie Avenue
P. O. Box 02201
Portland, Oregon 97202

Attention: Gilbert R. Meigs

Dear Mr. Meigs:

The City of La Grande has one right for the appropriation of water from Beaver Creek, as described in the certificate recorded at page 3200, State Record of Water Right Certificates. I am enclosing a copy of this certificate. This covers the appropriation of not to exceed 7.0 cubic feet per second of water and does not include the construction of a reservoir.

If the reservoir is for the storage of water during the runoff season to provide a supply when the flow of the stream is low, then the City should make application for a permit for such shortage.

I cannot answer your question regarding the involvement of National Forest lands and the question of access must be taken up with them.

Very truly yours,

CHRIS L. WHEELER
State Engineer

By
Trevor Jones, Assistant

TJ:pt

Enclosure

Stevens, Thompson, Runyan & Ries, Inc.
Engineers / Planners
PORTLAND, OREGON SEATTLE, WASHINGTON

66-P-403

November 15, 1966

RECEIVED
NOV 16 1966
STATE ENGINEER
SALEM, OREGON

Mr. Chris L. Wheeler
State Engineer
State of Oregon
Salem, Oregon 97310

Re: City of La Grande

Dear Mr. Wheeler:

128
P-29,
3200
cr-1

We have been engaged by the City of La Grande to design improvements to their water supply system. This work contemplates raising their dam on Beaver Creek, in S. 8, T. 5S, R.37E, W. M., about 10 feet to increase storage from 200 to 400 million gallons.

The work also includes increasing the transmission capacity from Beaver Creek to the City and certain improvements of the City's diversions on other creeks in the vicinity of Beaver Creek dam.

6201 GR Riv

Would you kindly transmit to us copies of such permits and certificates as may have been issued to the City in connection with their rights on Beaver Creek so that we may evaluate the present situation in respect to the appropriation and use of surface water? Inasmuch as the intakes and impoundment are in National Forest lands, could you advise us of the involvement of the Federal government in the same respect, if such information is readily available to you?

Very truly yours,

STEVENS, THOMPSON, RUNYAN & RIES, INC.

Gilbert R. Meigs

By: Gilbert R. Meigs
Senior Associate

GRM:lp

REPLY TO: 5505 S. E. MILWAUKIE AVE. • POST OFFICE BOX 02201 • PORTLAND, OREGON 97202 • PHONE (503) 234-0721

July 21, 1951.

Mr. J. B. Cherry, City Manager,
La Grande,
Oregon.

Dear Mr. Cherry:

Please find enclosed a copy of my report dated July 11, 1951, on the condition of the Beaver Creek Dam.

Very truly yours,

LEWIS A. STANLEY,
Assistant to State Engineer.

LAS:rjw.
encl.

File City of La Grande

July 21, 1951.

Regional Engineer,
U. S. Forestry Service,
606 Post Office Building,
Portland, Oregon.

Dear Sir:

I am enclosing a copy of the report on the condition of the Beaver Creek Dam owned and operated as a part of the municipal water supply system by the City of La Grande, prepared by L. A. Stanley on July 11, 1951. There is also enclosed a copy of my letter to the City of La Grande dated July 11, 1951. These copies are for your files.

Very truly yours,

CHAS. E. STRICKLIN,
State Engineer,

By

L. A. Stanley,
Assistant.

LAS:rjw.
encl.

UNITED STATES DEPARTMENT OF AGRICULTURE

FOREST SERVICE

NORTH PACIFIC DISTRICT

ADDRESS REPLY TO
DISTRICT FORESTER
AND REFER TO

POST OFFICE BUILDING
PORTLAND, OREGON

E
Cooperation
Lands

July 14, 1931.

STATE ENGINEER
RECEIVED
JUL 15 1931
SALEM, OREGON

Mr. L. A. Stanley,
Water Resources Department,
Salem, Oregon.

Dear Mr. Stanley:

Reference is made to your letter of July 13:

In accordance with your request we are enclosing copy of memorandum on the Beaver Creek Dam written by Mr. Dater on June 5.

Very truly yours,

James Trumbland
Acting Regional Engineer.

Enclosure.

PATRONS ARE REQUESTED TO FAVOR THE COMPANY BY CRITICISM AND SUGGESTION CONCERNING ITS SERVICE

1201 S

OF SERVICE

is a full-rate gram or Cable-gram unless its deferred character is indicated by a suitable sign above or preceding the address.

WESTERN UNION

NEWCOMB CARLTON, PRESIDENT

J. C. WILLEVER, FIRST VICE-PRESIDENT

SIGNS
DL = Day Letter
NM = Night Message
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LCO = Deferred Cable
NLT = Cable Letter
WLT = Week-End Letter

The filing time as shown in the date line on full-rate telegrams and day letters, and the time of receipt at destination as shown on all messages, is STANDARD TIME.

Received at 437 State Street, Salem, Oregon TELEPHONE 61

PR107 11 2 EXTRA=LAGRANDE ORG 13 211P

CHAS E STRICKLIN=

STATE ENGINEER SALEM ORG=

PORTLAND WEDNESDAY MORNINGS TRAIN LEAVE AT ONCE FOR SALEM=

A E CHERRY GENERAL MANAGER.

STATE ENGINEER
RECEIVED
JUL 13 1931
SALEM, OREGON

THE QUICKEST, SUREST AND SAFEST WAY TO SEND MONEY IS BY TELEGRAPH OR CABLE

PATRONS ARE REQUESTED TO FAVOR THE COMPANY BY CRITICISM AND SUGGESTION CONCERNING ITS SERVICE

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Received at [illegible]

1931 JUL 13 AM 11 16

PR40 7=SALEM ORG 13 1056A

A B CHERRY=

CITY MANAGER LAGRANDE ORG=

CAN MEET YOU IN SALEM WEDNESDAY MORNING=

CHAS E STRICKLIN STATE ENGINEER.

THE QUICKEST, SUREST AND SAFEST WAY TO SEND MONEY IS BY TELEGRAPH OR CABLE.

OF SERVICE DESIRED			
TIC		CABLE	
his RAM		FULL RATE	
eleg LETTER		DEFERRED	
NIGHT MESSAGE		CABLE LETTER	
NIGHT LETTER		WEEK END LETTER	

Patrons should check class of service desired; otherwise message will be transmitted as a full-rate communication.

COPY OF WESTERN UNION TELEGRAM

July 15, 1931.

MR A B CHERRY
CITY MANAGER
LA GRANDE OREGON

CAN MEET YOU IN SALEM WEDNESDAY MORNING

CHAS. E. STRICKLIN
State Engineer.

CES:LN
11 A.M.

CLA[illegible]ICE

This is a full-rate Telegram or Cablegram unless its deferred character is indicated by a suitable sign above or preceding the address.

WESTERN UNION

NEWCOMB CARLTON, PRESIDENT — J. C. WILLEVER, FIRST VICE-PRESIDENT

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The filing time as shown in the date line on full-rate telegrams and day letters, and the time of receipt at destination as shown on all messages, is STANDARD TIME.

Received at 437 State Street, Salem, Oregon TELEPHONE

1931 JUL 13 AM 10 10

PR53 50 DL 2 EXTRA=LAGRANDE ORG 13 931A

CHAS E STRICKLIN=

STATE ENGINEER SALEM ORG=

ON RECEIPT YOUR TELEGRAM WORK ON UPPER SIDE WAS STOPPED PROCEEDING ON LOWER SIDE ACCORDING TO LETTER SATISFIED FROM YOUR LETTER CONDITION OF DAM NOT FULLY UNDERSTOOD IS IT POSSIBLE FOR YOU TO PERSONALLY INSPECT DAM AT ONCE IF NOT CAN I MEET YOU IN SALEM WEDNESDAY ANSWER=

A B CHERRY GENERAL MANAGER..

STATE ENGINEER
RECEIVED
JUL 13 1931
SALEM, OREGON

THE QUICKEST, SUREST AND SAFEST WAY TO SEND MONEY IS BY TELEGRAPH OR CABLE

July 11, 1931.

City of LaGrande,
LaGrande, Oregon.

Gentlemen: Attention: Mr. A. B. Cherry.

Mr. L. A. Stanley of this office made an inspection of the Beaver Creek Dam on July 7, 1931, which dam is now being strengthened by the placing of an earth fill on the up-stream side. As a result of his summary of conditions as they exist at this time, it is my opinion that the work being done and proposed to be done in strengthening this structure will not fully accomplish what is desired in making this structure adequate and safe.

It appears that about the only work done preparatory to the placing of the fill on the up-stream side was the laying of some 80 feet of 30 inch 12 gage corrugated iron pipe from the dam extending up stream into the lake and some 88 feet of the same size and type of pipe extending down stream; the patching of two or three of the larger holes on the up-stream face of the dam caused by the disintegration of the concrete and the construction of a gate well from the outlet gate valve. It appears that the bottom of this gate well is constructed of reinforced concrete, and on top of that there are being placed against the dam some 10 feet sections of 12 gage corrugated semi-circular flume attached to the face of the dam by rods anchored to the reinforcing steel in the dam.

No adequate steps were taken to water proof the present structure by treating the up-stream surface of the dam and grouting the rock walls at the abutments where considerable seepage and leakage occurs, as recommended in the report of Phillip H. Dater, Regional Engineer of the U. S. Forest Service. The result of the failure to take these precautions will unquestionably be that the water will continue to pass through and around the dam regardless of the earth fill which is being placed. It is my opinion that after the completion of the fill as now being placed, water will stand against at least a part of the face of the dam under the full hydrostatic pressure due to the head of water in the reservoir. Even though the earth fill as constructed should be absolutely water tight, there is nothing to prevent the water which rises in the gate well to the same elevation as that of the water in the reservoir, from spreading laterally along the face of the dam and standing at full pressure. Such water is very likely to escape through the holes in the dam as it has done in the past and may eventually result in enlarging these holes to the extent that the dam will fail.

The intention as expressed in the specifications recently prepared by your engineer, Mr. A. H. McLain, is to place a similar earth fill on the down-stream side of the dam with the exception that the lower 4 feet should be of loose rock. Your plans in this regard should be modified so that this down-stream fill should be entirely of loose rock or at least that a layer of rock 4 to 6 feet in thickness be hand placed next to the dam for its entire height so as to provide adequate drainage and to prevent any water which may spurt through the dam in jets from making contact with earth or clay material used as a part of this fill.

In my opinion the omission of the water proofing of the dam and grouting of the abutments, as recommended by Mr. Dater, is a serious mistake. I believe you should now proceed, before completing the fill on the up-stream side, to water proof the balance of the dam which has not been covered and remove such of the material which has been placed in the fill as will enable you to absolutely stop all visible leakage. The rock abutments should be grouted, and I believe this can be done without necessity for moving any material placed to date. It may be possible to stop some or all of the leakage by grouting the dam itself from the down-stream side.

The placing of the rock fill on the down-stream side is by far the most important feature of this improvement. It should not by any means be delayed until after completion of the entire fill on the up-stream face, because to do so will result in placing a greater pressure against the existing structure than the water pressure alone and might result in causing the concrete to give way. I would recommend that the rock fill or the earth and rock fill on the down-stream side be entirely completed before placing further material against the up-stream face.

The capacities of the spillways as constructed are inadequate, although there seems to be no danger of over-topping the dam because of insufficient capacity of these spillways. As a part of the improvement it is recommended that a spillway be constructed with a capacity of at least 640 cubic feet per second with the water in the reservoir standing at an elevation of 45.6.

The authority of the State Engineer to approve the plans and specifications of such structures is contained in Section 47-702, Oregon Code 1930. Under this authority you are directed to furnish to this office, before proceeding further in the placing of the fill on the up-stream face of the dam, plans and specifications for completion of this work for approval of the State Engineer.

Mr. Stanley is writing a complete report on the dam as the result of his inspection, and as soon as it is ready a copy will be furnished you.

Very truly yours,

CHAS. E. STRICKLIN,
State Engineer.

LAS:LN

DOMESTIC		CABLE	
TELEGRAM	-	FULL RATE	
DAY LETTER		DEFERRED	
NIGHT MESSAGE		CABLE LETTER	
NIGHT LETTER		WEEK END LETTER	

Patrons should check class of service desired; otherwise message will be transmitted as a full-rate communication.

COPY OF WESTERN UNION TELEGRAM

Salem, Oregon,
July 10, 1931.

Mr. A. B. Cherry,
City Manager,
LaGrande, Oregon.

WORK ON BEAVER CREEK DAM AS REPORTED BY STANLEY WILL NOT MAKE STRUCTURE SAFE STOP UPSTREAM FACE SHOULD BE WATERPROOFED AND WEST ABUTMENT GROUTED AS OUTLINED IN DATERS REPORT STOP LETTER FOLLOWS

CHAS. E. STRICKLIN
State Engineer

LAS:LN
12:00 M.

July 1, 1931.

Mr. A. B. Cherry,
City Manager,
LaGrande, Oregon.

Dear Sir:

In accordance with the suggestion contained in your letter of June 29th I will plan to make the inspection of the Beaver Creek dam on Tuesday, July 7th. I will get in touch with you on the 6th and arrange a meeting place for Tuesday morning.

Very truly yours,

L. A. STANLEY.

LAS:EN

CITY OF LA GRANDE, OREGON

COMMISSION-MANAGER FORM OF GOVERNMENT

VICTOR MELVILLE, PRESIDENT
COMMISSIONER

WILLIAM M. CONDIT
COMMISSIONER

F. J. LOTTES
COMMISSIONER

A. B. CHERRY, MANAGER

OFFICE OF
CITY MANAGER

STATE ENGINEER
RECEIVED
JUL 1 1931
SALEM, OREGON

La Grande, Oregon.
June 29, 1931.

Mr L.A.Stanley,
State Engineer
Salem, Oregon.

Dear Mr Stanley:

Mr McLain, City Engineer, has handed me your letter under date of June 24th.

The trial will be over this week and would be very glad to go to the intake with you on Tuesday morning the 7th or any day later that week.

We would want to leave here early on the 7th and if you could arrive the night of the 6th and get in touch with me I will appoint a meeting place for the start.

Hoping to see you on that date,

I am,

Very truly yours,

A.B. Cherry.

General Manager

ABC:LW

June 9, 1931.

Mr John Kuhns
Forest Supervisor
Baker, Oregon.

Dear Mr Kuhns:

I am in receipt of a letter to-day from Mr Dater and a memorandum list of certain suggestions regarding the dam.

It was mutually understood by Mr Dater and myself before he left here that just as soon as Mr Mc Lain, our Engineer, can leave the work at the dam he will prepare plans and specifications of the work we propose to do and make formal application to the Forest Service for a permit. He granted us permission to go ahead with the work in the meantime owing to the few days we have left to gather a little water before the flow stops entirely. We agreed to follow the recommendation as nearly as it is possible to do so.

A copy of the suggestions made by Mr Dater has no doubt been sent to you by him. I am inclosing a copy of my letter to him to-day.

The streams are drying up fast and we hope to get the gate shut this week so we can get at least half a lake full of water before things dry up entirely.

Will keep you informed from time to time.

Yours very truly,

General Manager

ABC:LW

June 9, 1931.

Mr Philip H.Dater
Regional Engineer,
Forest Service-Portland,Oregon.

Dear Mr Dater:

I am in receipt of your letter of June 5th and memorandum.

I note what you have to say regarding the spillway and we are of the same opinion, just what we will do will be taken up later. Our first objective is some water at least in the lake this summer. The work is progressing slowly owing to the slowness of the cement work and the difficulty of getting supplies on the job.

Suggestions Nos. 1,2,3,4,5 and 6 should be completed this week on the upper side of the dam and about five teams make a start on the fill by Wednesday or Thursday.

Suggestion No.9. This work is about completed. I will advise you from time to time as the work progresses.

Mr Mc Lain will forward to the Forest Supervisor at Baker, plans and specifications just as soon as he can leave the work at the intake. A copy will be forwarded to you. Iam mailing a copy of this letter to the Baker Office and I am inclosing a copy of the letter written to-day to Mr Kuhns.

As it is getting very dry here and the water is going down in the streams at a rapid rate. We may be able to half fill the reservoir if we can get the gate closed this week.

Yours very truly,

General Manager

ABC:LW

E
Coop
Lands

L
Uses, Whitman
City of La Grande
Dam

June 5, 1931.

MEMORANDUM

On June 2 I inspected the La Grande dam located on Beaver Creek. The party included A. B. Cherry, City Manager, A. H. McLain, City Engineer, William M. Condit, City Commissioner and John C. Kuhns, Forest Supervisor.

The dam was constructed in 1915 and is described in my report of January 5, 1917. My conclusion at that time was that the structure was questionable due largely to inferior materials. Improper mixture may have been a contributing factor. Whatever the causes, the investigation made in 1916 indicated an unsatisfactory structure of less than one-half the strength assumed in the design. At that time I suggested either a new concrete dam or the construction of a rock fill dam, using the original dam as a core wall. The city now proposes the construction of an earth dam, using the existing concrete dam as a core wall.

Present inspection confirms former opinions as to the poor quality of the concrete in the dam. There is a pile of spalled-off material at each side of the base of the dam. The spalling averages perhaps two to four inches over the face of the dam. At some places the spalling is much deeper, sufficient in three or four instances to expose the steel reinforcing bars. The reservoir was drained on June 2 and therefore there was no opportunity to observe leakage. City officials told me that there was direct leakage at several points, at one place on the left side an appreciable stream. Inspection of the concrete at this point showed extensive small voids in the body of the concrete. The aggregate was clean, indicating water wash through the structure. At practically any point on either face of the dam it is possible to dislodge pieces of the aggregate using ones fingers only. Mortar can be cut away with a small pocket knife. Mr. Cherry told me that there was noticeable vibration in the structure when the reservoir was only partially filled (about 15 ft.). I was told that the reservoir was filled last year. Certainly the structure is in such condition that complete filling is taking undue risks. The structure as it now stands, unquestionably should be condemned.

Copy for Mr. Stanley

The city recognizes the unsatisfactory condition of the dam and has already started repairs. Two corrective plans appear feasible.

First,- construct a new concrete dam similar in design to the existing dam,-

Second,- build a rock fill or earth dam, using the existing dam as a core wall. The city has chosen the earth dam type. I believe that this type of construction can be used with reasonable satisfaction and safety. Certain precautions should be taken in executing the work. The remodeled structure will, perhaps, be less desirable than a new concrete dam. However, the matter of cost enters into the picture. LaGrande is in unusual financial difficulties. The earth dam should provide reasonable expectation for survival of the structure and reasonable protection of the public. The dam is located in unsettled mountain country. The reservoir is not large. The original plans state a capacity of 614 acre feet. The dam has a maximum height of perhaps 35 feet. There are no permanent residents below the dam for a distance of several miles.

I discussed the city's proposed plan with both Mr. Cherry and Mr. McLain. I requested that plans of the new work be prepared and submitted to the Forest Service along with specifications for the work. I also suggested to Mr. Cherry that it might be desirable for the City to request approval of the new work by the State Engineer as provided in Sec. 47-702 of the Oregon Water Laws.

I have the following suggestions to make regarding the proposed construction:

Existing Concrete dam:

1. Cut out concrete at points where leakage occurs and replace with new concrete.

2. Fill the large sluff holes in the face of the dam, particularly those showing exposed reinforcing rods.

3. Waterproof upper face of dam to prevent leakage and undue seepage.

New Structures:

4. Concrete well at outlet valve. Tie to existing dam by steel rods firmly anchored in dam. Place concrete in dry, if possible. In any event cut off all running water before placing the concrete.

5. Place steel outlet pipe on concrete or masonry supports. Piers might be used. It might also be possible to anchor certain parts of the pipe by steel anchors embedded in the rock foundation. It is essential that this pipe be firmly set or anchored to provide against vertical or lateral displacement due to weight of

superimposed embankment. Wherever earth comes in contact with the pipe, pack the earth fill thoroughly at sides and beneath the pipe.

6. It is suggested that consideration be given to the construction of a grillage at the upper end of the pipe, sufficient to stop logs or limbs but not fine enough to stop leaves.

Earth dam

7. The material proposed is rather fine. I suggest that the up-stream slope be not less than 1 on 3, the down-stream, 1 on 2 The proposed top width of 12 feet (6 ft. each side of dam) appears adequate. It has been proposed to stop the earth fill below the top of the concrete, practically at spillway level. Because of the condition of the concrete, I believe it desirable to continue the earth work to the top of the concrete in the dam.

8. Provide loose rock, or tile drainage, or both, near bottom of earth dam below the concrete cut-off or existing dam.

9. Remove logs and waste material from area to be covered by earth work.

10. Deposit earth in 6 to 8 inch horizontal layers. Compact, Moisten, to facilitate compaction. Compaction can probably be had most inexpensively by driving horses over material as spread.

11. Desirable to keep fill on the two sides of the concrete core at approximately the same elevation during the progress of the work. To expedite storage the upper side could probably be carried a few feet in advance of the lower. I would not exceed 10 feet.

12. Since the material is fine, it would probably be desirable to consider placing sufficient rock on the earth slopes to prevent wave action or wash from rains or surface water.

13. Desirable to puddle over rock near left abutment where there is now leakage through the rock. In fact, if leakage is known to have occurred at either abutment, attempt to stop it by grouting through drill holes or by puddling over rock

Spillway

14. Checking against somewhat similar projects both as to area and location it appears that the existing spillway is smaller than

would be required by the usually accepted practice. An earth dam is only as good as its spillway. I therefore recommend that at least double the existing spillway capacity be provided. It is my understanding that the present spillway crest is about 4 feet below the top of the dam. It should not be less. Additional spillway capacity can be obtained by lengthening the present spillway or by constructing a duplicate at the place where the present metal spillway is. Or the spillway crest could be lowered and additional length lengthened. In any event I believe it essential to provide more spillway capacity. It is the unusual flood that causes trouble and the unusual flood may occur at any time. Even the doubling of the present capacity does not provide as great a capacity as is provided in numerous other comparable projects.

Philip H. [illegible]

Regional Engineer.

January 5, 1931.

Mr. W. C. Crews,
City Manager,
La Grande, Oregon.

Dear Sir:

I thank you very much for your letter of December 29th with reference to the Beaver Creek Dam.

In accordance with your suggestion, an inspection of this dam will be made by a representative of the State Engineer as soon as snow and weather conditions will permit.

Yours very truly,

CHAS. E. STRICKLIN,
State Engineer.

By
Office Assistant.

LAC:LM
c.c. to Mr. Franklin

January 5, 1931.

Mr. C. J. Buck, Dist. Forester,
U. S. Forest Service,
Portland, Oregon.

Dear Sir: <u>Attention: Mr. Franklin.</u>

I am inclosing a copy of a letter dated December 29, 1930, from W. C. Cress, City Manager of La Grande, relative to the Beaver Creek Dam. There is also inclosed a copy of my reply for your information.

Yours very truly,

CHAS. E. STRICKLIN,
State Engineer.

By
Office Assistant.

LAB:LN
Encl.

CITY OF LA GRANDE, OREGON

COMMISSION-MANAGER FORM OF GOVERNMENT

A. T. HILL, PRESIDENT
COMMISSIONER

CHAS. PLAYLE
COMMISSIONER

VICTOR MELVILLE
COMMISSIONER

W. C. CREWS, MANAGER

December 29, 1930

Chas. E. Stricklin,
State Engineer,
Salem, Oregon.

Dear Sir:

Reference to your inquiry of December 22nd in regard to the Beaver Creek dam, southwest of La Grande.

From all outward appearances this dam does not look to be safe. Personally, I believe this dam should be examined by a representative of your office, but owing to weather conditions and the location of this dam it will be impossible to make this inspection until sometime next spring.

In case this dam should go out during the winter months it could not do much damage as there are no homes or farms along Beaver Creek and by the time it reached the Grande Ronde River it would be past any dangerous stages. However, I would recommend that you have a representative visit this dam next summer.

Yours respectfully,

W. C. CREWS

W. C. Crews

City Manager.

WCC:IM

March 7th, 1921.

Mr. George Garrett,
City Manager,
La Grande, Oregon.

Dear Sir: Permits Nos. 29 & 59.

Enclosed please find my official receipt No. 3235 for $1.00, which amount was transmitted with your letter of March 4th together with final proof under permit No. 29 in the name of the City of La Grande. This matter will be considered at the next meeting of the Board.

I note that the city never developed the water right under application No. 152, Permit No. 59, and I would be glad if you would definitely authorize the cancellation of this permit in order to clear our records.

I note that you have extended the city's intake to Coal Creek, which was not covered by the previous permit. In order to protect the city's right to the appropriation of this water, it would appear that an application should be made and permit secured covering the water from this source of supply. I am enclosing application blanks and copy of instructions for use in making such application.

Trusting you will find this satisfactory, I remain,

Very respectfully,

Percy A. Cupper,
State Engineer.

RS:R
Encl.

THE CITY OF LA GRANDE, OREGON

COMMISSIONERS

W. D. GRANDY, PRES., J. D. M'KENNON, D. I. STODDARD

CITY MANAGER

GEORGE GARRETT, C. E.

March 4, 1921

Percy A. Cupper, State Engineer
Salem, Oregon

Dear Sir:

I am returning herewith proof of appropriation of water for permit No. 29. The pipe line which was to be constructed on the west fork of Beaver Creek and for which application for water was made under permit 59 was never constructed. However we have constructed a four inch line up Coal Creek, the intake for same being about 178 feet from the Beaver Creek pipe line, for which we have never taken out a permit.

The quantity of water secured from the intake on Beaver Creek and the intake on Coal Creek amounts to somewhere between 1,500,000 and 2,000,000 gallons

If it is necessary to secure a permit for the water on Coal Creek, please send me application blank for same.

I am inclosing herewith a check for one dollar, for recording fee on permit No. 29, also the two blue prints showing the approximate location of the pipe line.

Yours very truly,

George Garrett
City Manager

GG/AH
Inc.

February 23rd, 1921.

Mr. George Garrett,
City Manager,
La Grande, Oregon.

Dear Sir; Permits Nos. 29 & 59.

I am in receipt of your letter of February 21, and note that you would like a new set of final proof blanks under Permits Nos. 29 and 59, in the name of the City of La Grande.

I am accordingly enclosing blanks herewith, together with a blueprint of the maps filed with the permits.

The final proof should be returned accompanied by $1.00 for recording each water right certificate.

Trusting you will find this satisfactory, I remain,

Very respectfully,

Percy A. Cupper,
State Engineer.

MSH
Encl.

THE CITY OF LA GRANDE, OREGON

COMMISSIONERS

W. D. GRANDY, PRES., J. D. M'KENNON, D. I. STODDARD

CITY MANAGER

GEORGE GARRETT, C. E.

February 21, 1921

Percy A. Copper, State Engineer

Salem, Oregon

Dear Sir:

In reply to your letter of February 19, addressed to the City Recorder, relative to submitting final proof of water permits Nos. 29, and 59, in the name of the City of La Grande, wish to state that it will be necessary for me to secure new sets of blanks in order to comply with your request.

Trusting that you will be enabled to supply me with same in the very near future and thanking you for same, I remain

Yours very truly,

George Garrett

City Manager

GG/AH

February 19th, 1921.

City Recorder,
La Grande,
Oregon.

Dear Sir: **Permits Nos. 29 & 59.**

I note from the records of this office that final proof has not been submitted under permits Nos. 29 and 59 in the name of the City of La Grande, although final proof blanks were forwarded for execution on June 25th, 1918. Permit No. 29 covers the appropriation of 7 second feet from Beaver Creek for municipal purposes, and Permit No. 59 covers the appropriation of 2 second feet from West Fork of Beaver Creek for municipal purposes.

If the city is now ready to submit final proof under these permits, we would be very glad to receive final proof, in order that water right Certificate may be issued. A new set of blanks will be prepared and forwarded for execution upon request.

We are endeavoring to bring our records up to date and would be very glad to hear from you in regard to this matter.

Very respectfully,

Percy A. Cupper,
State Engineer.

M:d

June 25, 1918.

City Recorder.

La Grande, Oregon.

Dear Sir:

I am enclosing blanks for proof of appropriation of water under permits No. 29 and 59 of the City of La Grande.

Kindly see that these proofs are properly filled out and returned to this office. If one certificate is desired, send $1.00 to cover recording fee, but if two certificates are desired send $2.00 and the matter will be presented to the Board at its next meeting for consideration.

Yours very truly,

R. W. Potter,
Secretary.

GB.

May 23, 1918.

City Recorder,
LaGrande, Oregon.

Permits No. 29, 59.

Dear Sir:

In December of 1916 we made an effort to have the City of LaGrande complete its water rights under permits No. 29 and 59 covering the appropriation of water for municipal purposes, and as we are still endeavoring to bring our records up to date we would be glad to have the city perfect its rights in order that final water right certificate may be issued by the Board. The following is an outline of the water rights according to our records:

Application No. 120, permit No. 29, covers the appropriation of 7 second feet of water from Beaver Creek for municipal purposes, the point of diversion being within the NW SE Sec. 8, T. 5 S. R. 37 E. According to the terms of the permit construction work was required to begin on or before June 17, 1910, be completed on or before June 17, 1912, and the water applied to the proposed use on or before June 17, 1914. The notices of completion of construction and complete application of water have been filed indicating that the terms of the permit have been complied with, and final proof blanks were forwarded Dec. 18, 1915, for execution, but up to the present time final proof has not been submitted.

Application No. 152, permit No. 59, covers the appropriation of 2 second feet of water from the W. Fork of Beaver Creek for municipal purposes, the point of diversion being within the NW NE Sec. 7, T. 5 S. R. 37 E. According to the terms of the permit construction work was to begin on or before Aug. 7, 1910, be completed on or before Aug. 7, 1912, and the water applied to the proposed use on or before Aug. 7, 1914. The notice of beginning construction work has been filed under this permit but according to a letter from J. D. Howland, City Engineer under date of Dec. 14, 1915, this notice should have been filed under permit No. 29, and no work has been done under permit No. 59 but the permit should be canceled.

If for any reason the final proof blanks have become lost or mislaid a new set will be prepared and forwarded for execution.

Trusting we may hear from you in regard to this matter, I am,

Very respectfully,
John H. Lewis,
Pres. State Water Board.

RS.

December 18, 1916.

Mr. R. R. Neal,
La Grande, Or.

Dear Sir:

Referring to appropriation of the City of La Grande under Permit No. 29, I beg to advise you that according to the records of this office this permit has been completed and is now ready for the submission of final proof of appropriation of water and the issuance of water right certificate in accordance therewith.

I am informed, however, that it is part of the plan to store water. This will necessitate a filing for storage reservoir in the State Engineer's Office, using the reservoir blank enclosed herewith. This will give you a right merely to store the water, and in order to comply with the law it will be necessary to make a secondary filing, referring to such reservoir, and stating that you intend to divert water therefrom as a supplemental supply to the direct diversion from Beaver Creek described in Permit No. 29.

It is probable that the matter will be simplified by holding up the proof under Permit No. 29 until the two new filings are perfected, so that water right certificates, when issued, will cover the appropriation as a whole, since I understand the same diversion works and canal are used under Permit No. 29 and the secondary application to be filed, referring to the reservoir as a source of supply.

I am enclosing reservoir blank, blank for a secondary application, and printed instructions. It is probable that the maps already on file under Permit No. 29 can be used for the secondary application, and it will only be necessary for you to submit maps locating the reservoir.

Very truly yours,

Secretary.

RWP
Encls.

Applications No. 128
152.

August 21, 1916.

Mr. J. S. Slater,
City Attorney,
LaGrande, Oregon.

Dear Sir:

Enclosed please find my official receipt No. 4604 for $2.00, which amount was transmitted for copies of application No. 128, permit No. 29, and application No. 152, permit No. 59, in the name of the City of LaGrande.

Very respectfully,

Percy A. Cupper,

RS. Assistant State Engineer.

Enc.

December 18, 1915.

City of La Grande,

La Grande, Oregon.

Gentlemen:-

I inclose blank for proof of appropriation of water under permit No. 29 which you will please fill out and return to this office, together with $1.00 to cover recording, upon receipt of which the same will be presented to the State Water Board for approval and issuance of water right certificate.

Very respectfully,

Secretary.

RS.

THE CITY OF LA GRANDE, OREGON

Established under Commission Government, with Manager, Oct. 1st. 1913.

LaGrande, Ore., 12/14/15

M. F. Mers, Sec.,
State Water Board,
Salem, Ore.,

Dear Madam:-

In repply to your letter of Dec. 3rd, Inst. to the City Recorder of LaGrande, which has been refered to this office, it is my impression that an error has been made in crediting the construction proofs previously filled by this City. According to the abstracts of Permits on file in the Water Supt's office here, proof of completing beneficial use on permit #59 was filed Jan.1st 1910. Permit #59 is for water from the West Fork of Beaver Creek, and no work has been done to perfect this right, it being entirely abandoned by the City at this time. However the right under permit #29, which is for water from main Beaver Creek, has been completed for several years. It is evident, therefore, that proofs credited to permit #59 should have been credited to permit #29.

If you will therefore make the above correction on your records, and forward the necessary blanks for making final proof on permit #29 the matter will be disposed of at once. Permit #59 may then be cancelled.

With kind personal regards, I remain,

Yours very respectfully.

C. H. Burland City Engineer.

Permit No. 29.

Dec. 3, 1915.

Recorder of the City of LaGrande,
LaGrande, Oregon.

Dear Sir:

I note from the records of this office that no notices of work done towards perfecting the water right under application No. 128, permit No. 29, in the name of the City of LaGrande, have been filed in this office. This permit was for 7 second feet of water from Beaver Creek for municipal purposes and domestic use, and was granted June 17, 1909. Construction work was required to begin on or before June 17, 1910, be completed on or before June 17, 1912, and the water completely applied to the proposed use on or before June 17, 1914.

If it is the intention of the City to rely on this permit, you should file in this office the required notices which may be submitted on the enclosed blanks. Upon receipt of the required notices, final proof blanks will be forwarded.

Very respectfully,

RS. M. F. Mers, Secretary.