

RECEIVED

MAR -6 1987

WATER RESOURCES DEPT.
SALEM, OREGON

Water Resources Department

101 NW "A" STREET, GRANTS PASS, OREGON 97526 PHONE 474-5385

March 4, 1987

Rough & Ready Lumber Co.
30365 Redwood Highway
Cave Junction, OR 97523

Attention: John Krauss

Dear Mr. Krauss:

I am enclosing a copy of a memo to me concerning your dam.

We have had problems with tree roots in dams in the past. I recognize the trees aren't large enough to log yet, but it probably would be prudent to have them removed.

Sincerely,

Robert B. Steimer
Watermaster District #14

RBS:mr

cc: ~~Dam Safety Division~~
State Water Resources Department

INTEROFFICE MEMO

TO: Robert B. Steimer, Watermaster

DATE: March 2, 1987

FROM: Norman E. Daft, Deputy Watermaster

NE

SUBJECT: Rough and Ready Reservoir (Mill Pond)
40-8-8

John Krauss accompanied me during the routine inspection of the Rough and Ready Reservoir on 2/11/87.

A large portion of the reservoir has been filled in. The reduced size is about 125 feet by 225 feet by 8 to 10 feet deep. The reservoir is no longer used as a log pond. Its use now is as a pumping sump to facilitate pumping water onto the log decks.

Trees, mostly pine, are growing on the embankment. These trees are a potential hazard to the dam and should be removed.



Oregon

John A. Kitzhaber, M.D., Governor

March 19, 2002

Water Resources Department

Commerce Building
158 12th Street NE
Salem, OR 97301-4172
(503) 378-3739
FAX (503) 378-8130
www.wrd.state.or.us

Link Phillippi PE, Operations Manager
Rough & Ready Lumber Co.
30365 Redwood Highway
P.O. Box 519
Cave Junction, OR 97523

Re: R. & R. Mill Pond; File No. LP-75
Application R-29970, Permit No. R-1750, Certificate 22620
Application R-38583, Permit No. R-3881, Certificate 35148

Dear Mr. Phillippi:


Thank you for meeting with me and the District #14 Watermaster on Thursday, 3/14/2002. The Water Resources Department is the state agency responsible for performing inspections of all dams and reservoirs exceeding the statutory size limits of 10 feet height and 9.2 acre-feet storage. As you recall, we determined that the present reservoir storage is approximately 3 acre-feet due to the log pond being backfilled and replaced with a sprinkler system. This value for storage is important because it exempts your structure from routine dam safety inspections (ORS 540.400). Consequently, we have removed the referenced structure from our inspection list. Please be advised this office will not perform any future dam safety inspections for your dam and reservoir.

At the time of our visit, the reservoir was near capacity, with the pool level about 2 feet below the crest of the perimeter embankment dam. Based on my site observations, the following is a list of items that were noticed as needing maintenance or repair to help protect your investment and to keep the dam in good operating condition:

- ▶ The embankment on the east side of the reservoir has been over-steepened as a result of mechanical deepening of a drainage ditch along the toe. We recommend the ditch be moved further to the east, and the existing channel backfilled with quality material and compacted with moisture control to 95% maximum density (ASTM D-698).
- ▶ In order to maintain good visibility and prevent internal deterioration of the embankment, it is important that sight obscuring weeds/brush/briers be cut down and removed from the dam, especially all trees and woody-type vegetation with penetrating roots.

Finally, the allowable storage for which the structure was originally permitted is no longer being utilized to capacity. The Watermaster may be contacting you to begin voluntary cancellation proceedings for those water rights that are unfulfilled. Should you have any questions or if I can be of service in any other way, please do not hesitate to let me know.

Sincerely,


John Falk, P.E.
Safety of Dams

c: Norm Daft - Watermaster Dist. #14
file

R-38583
38525

May 1, 1964

Rough & Ready Lumber Company
P.O. Box 222
Cave Junction, Oregon

29.196 with blueprint.

s. R-38583, 38525, permit Nos. R-3881

R-38583
38525

March 25, 1964

Rough and Ready Lumber Company
P.O. Box 222
Cave Junction, Oregon

Gentlemen:

This is to advise you that your applications numbered R-38583 and 38525 have been approved by issuance of permits. Your application numbered R-38583 has been approved by a permit authorizing the enlargement of Rough and Ready Mill Pond constructed under permit numbered R-1750 and the storage of water from Rough and Ready Creek for industrial use to the extent of 50.4 acre feet of water.

The secondary application numbered 38525 has been approved by a permit authorizing the appropriation of not to exceed 0.50 cubic foot of water per second from Rough and Ready Creek and Rough and Ready Mill Pond for industrial use, including maintenance of a log pond. The right to appropriate direct flow has been limited to the period when the flow of the Illinois River is more than eighty cubic feet of water per second from its mouth and the flow of the Rogue River is more than 745 cubic feet of water per second at its mouth. The priority date of the permit is March 20, 1963.

As soon as the necessary recording entries have been made in this office, the permits will be mailed to you. Pending your receipt of the permits, this letter may be used as your authority to proceed with any construction connected with your proposed project and the appropriation of water as authorized by the permits.

Very truly yours,

CHRIS L. WHEELER
State Engineer

By
Walter N. Perry, Assistant

WNF:egw

cc: Mr. Robert B. Steimer
Watermaster, Dist. 14
Josephine County Courthouse
Grants Pass, Oregon

RICHARD L. TEMPLIN, JR.
COUNTY ENGINEER
COUNTY SURVEYOR

DEPARTMENT OF ROADS
JOSEPHINE COUNTY
ROOM 120, COURTHOUSE
GRANTS PASS, OREGON

RECEIVED
MAR 11 1964
STATE ENGINEER
SALEM, OREGON

March 10, 1964

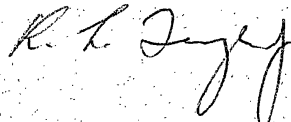
Mr. Jerry W. Eggleston, Engineer
State Engineer Office
Water Resources Department
516 Public Service Building
Salem 97310

Dear Mr. Eggleston:

Enclosed under separate cover are the plans for the Rough and Ready Log Ponds corrected per your letter of February 26, 1964.

Thank you for pointing out my error in capacity of the ponds, which I have corrected.

Sincerely,



R. L. Templin, Jr., County Engineer
Josephine County, Oregon.

RLTJr:ef

LAURENCE A. CUSHING

ATTORNEY AT LAW

P. O. BOX 234

CAVE JUNCTION, OREGON

March 16, 1964

TELEPHONE 6711

BANK BUILDING

RECEIVED
MAR 17 1964
STATE ENGINEER
SALEM, OREGON

State of Oregon
State Engineer
Water Resources Department
516 Public Service Building
Salem 10, Oregon

Attention: Mr. Jerry W. Eggleston
Engineer

Dear Mr. Eggleston:

I am enclosing the corrected application on the Rough & Ready log ponds,
and I believe you have already received Mr. Templin's corrected material.

We will be expecting to hear from you in the near future advising that we
can construct the ponds in connection with the application and material
furnished by Mr. Templin.

Thanking you for your co-operation, I remain,

Very truly yours,

Laurence A. Cushing
LAURENCE A. CUSHING
Attorney at Law

LAC:rs

R-38583
38525
R-29970
29971

February 26, 1964

Mr. R. L. Templin, Jr.
County Engineer
Department of Roads
Room 120, Courthouse
Grants Pass, Oregon

Dear Mr. Templin:

The plans for the Rough and Ready Log Ponds have been examined and are being returned to you for additional information on two items.

1. There appears to be an error in the capacity curve. My computations would indicate a capacity of just over 100 acre feet for all ponds.
2. Would you indicate by note or sketch, the location and type of control on valve of the 18" C.M.P. outlet pipe.

Aside from these two points, the plans appear to adequately represent the existing structures and the changes you propose.

The reservoir application is being returned so that data agreeing with your plans can be shown on the application. It appears that the original application did not make proper allowance for borrow from the interior of the log ponds. Therefore, this application should cover the increased storage. The increased storage is considered to be in all four ponds. Changes should be made in the following items of the application:

- Item 3: The capacity shown should be the difference between the existing capacity and 57.6 acre feet for which a right exists. A notation should be entered in the remarks indicating that the 57.6 acre feet is covered by certificate number 22620.
- Item 5: Should be amended to include SW¹/₄ NW¹/₄ to include two western ponds.
- Item 6: Location should be amended as above. Maximum height appears to be about 16 feet at northeast corner of old

February 26, 1964

pond. Lengths of dike would be total lengths of old and new dikes. Top width should be minimum proposed top width. Upstream slope appears to be steeper than 3:1. Height of dam above water line should be minimum that will exist at any point where pond is contained by dike.

- Item 8: Should show location and dimensions of the proposed new concrete wasteway.
- Item 9: Should describe the 18" C.M.P. outlet pipe.
- Item 10: The total surface area, maximum depth and mean depth should be shown here.

The application has been endorsed so that in order to retain its priority, it should be returned to this office on or before April 27, 1964.

Very truly yours,

CHRIS L. WHEELER
State Engineer

By
Jerry L. Eggleston,
Engineer

JWB:ngb
Enclosure

cc: Laurence A. Cushing
Attorney at Law
E. O. Box 234
Cave Junction, Oregon

RICHARD L. TEMPLIN, JR.
COUNTY ENGINEER
COUNTY SURVEYOR

DEPARTMENT OF ROADS
JOSEPHINE COUNTY
ROOM 120, COURTHOUSE
GRANTS PASS, OREGON

February 21, 1964

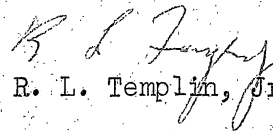
Mr. A. M. Petska, Engineer
Office of State Engineer
516 Public Service Building
Salem, Oregon, 97310

RECEIVED
FEB 24 1964
STATE ENGINEER
SALEM, OREGON

Dear Sir:

Enclosed find plat of survey of
Rough and Ready Lumber Company log ponds located
in Section 8, Township 40 South, Range 8 West of
the Willamette Meridian, and recommended corrections
to be made.

Sincerely,



R. L. Templin, Jr., County Engineer

RLT:ef

(Encl)

R-38583
38525
R-29970
29971

December 13, 1963

Mr. Richard Templin
County Engineer
County Courthouse
Grants Pass, Oregon

Dear Mr. Templin:

Mr. Cushing has told me that you are the engineer preparing the plans for the Rough and Ready Lumber Company log pond near Cave Junction. I inspected the log pond on December 9, 1963, but was not able to talk with you about it before I left Grants Pass on December 10. Mr. Petska will probably be in Grants Pass during the latter part of next week and will be happy to meet with you to discuss any questions you may have about our requirements for these plans.

Very truly yours,

CHRIS L. WHEELER
State Engineer

By
Jerry W. Eggleston,
Engineer

JWE:mgb
CC: Laurence A. Cushing
Attorney at Law
P. O. Box 234
Cave Junction, Oregon

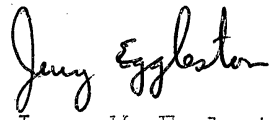
R-38583
38525
R-29970
29971

MEMORANDUM OF INSPECTION

Rough and Ready Lumber Company Log Pond

With Robert Steimer this log pond was inspected on December 9, 1963.

A fill appears to have been constructed with a bulldozer by pushing material from below the downstream toe up onto the dam. The material consists of sand, silt and boulders. There was very little seepage noted at the toe although the pond has evidently been full for some time. The maximum height of the dam is 16½ feet with a crest width of approximately six feet minimum. At the northeast corner of the pond is an 18-inch corrugated metal pipe outlet and near the northwest corner there is a wood flume overflow across the crest with a bottom width of 21 inches and a depth of 11½ inches. Along the west side the pond has been formed entirely by excavation. At the present time little damage would be done by a breach of the dike since the water would have to spread over a large area before reaching any structures.

By 
Jerry W. Eggleston,
Engineer

LAURENCE A. CUSHING

ATTORNEY AT LAW

P. O. BOX 284

CAVE JUNCTION, OREGON

December 2, 1963

RECEIVED
DEC 3 1963
STATE ENGINEER
MAIL ROOM

TELEPHONE 6711

BANK BUILDING

State of Oregon
State Engineer
Water Resources Department
516 Public Service Building
Salem, Oregon, 97310

Attn: Mr. A. M. Petska, Engineer

38525

Re: R-38583

Thank you for your letter of November 29, 1963, last on the Rough and Ready Lumber Company filings.

who

The engineer/has been working on the plans and specifications has been very busy and we are attempting to get the balance of the material from him so we can forward it to you.

We will check with him again and try to get this matter cleared up in the near future.

Thank you for your courtesy. I remain,

Very truly yours,


LAURENCE A. CUSHING
Attorney at Law

LAC:d

38525
R-38583

November 29, 1963

Mr. Laurence Cushing
Attorney at Law
P. O. Box 234
Cave Junction, Oregon

Dear Mr. Cushing:

This is with reference to the filings for a lumber mill pond for the Rough and Ready Lumber Company in the name of Lew F. Krauss and associates. Would you please advise this office as to the progress of the plans and specifications as outlined in my letter of June 6, 1963.

Very truly yours,

CHRIS L. WHEELER
State Engineer

By
A. M. Petska,
Engineer

AMP:mgb

R-38583
R-38525

October 4, 1963

Mr. Laurence Cushing
Attorney at Law
P. O. Box 234
Cave Junction, Oregon

Dear Mr. Cushing:

This is with reference to the filings for a lumber mill pond for the Rough and Ready Lumber Company in the name of Lew F. Krauss and associates. Would you please advise this office as to the progress of the plans and specifications as outlined in my letter of June 6, 1963.

Very truly yours,

CHRIS L. WHEELER
State Engineer

By
A. M. Patska
Engineer

AMP/da

R-38583
38525

August 22, 1963

Mr. Laurence Cushing
Attorney at Law
P. O. Box 234
Cave Junction, Oregon

Dear Mr. Cushing:

This is with reference to the filings for a lumber mill pond for the Rough and Ready Lumber Company in the name of Lew F. Krauss and associates. Would you please advise this office as to the progress of the plans and specifications as outlined in my letter of June 6, 1963.

Very truly yours,

CHRIS L. WHEELER
State Engineer

By A. M. Ketska,
Engineer

AMP:agb

June 6, 1963

Mr. Laurence Cushing
Attorney at Law
P. O. Box 234
Cave Junction, Oregon

Dear Mr. Cushing:

This is with reference to the filings for a lumber mill pond for the Rough and Ready Lumber Company in the name of Lew F. Krauss and associates. Since the storage is in excess of 9.2 acre feet and a height of 10 feet, it will be necessary that certain engineering information be submitted in support of these applications. For your convenience I have outlined these specific items below:

1. A topography map of the reservoir and dam, together with an area and capacity table.
2. A profile along the center line of the dam, with the ground level projected to the center line.
3. Cross sections of the dam and reservoir showing its various engineering dimensions.
4. A cross section and profile of the wasteway.
5. A general description of the project and a statement by a registered professional engineer as to the safety and stability of the structure as constructed.

It will be necessary that this information be supplied by a registered professional engineer, and when your engineer has this information in a preliminary form, if you will so advise, an engineer from this office will schedule an inspection of the structure.

Very truly yours,

CHRIS L. WHEELER
State Engineer

By

A. M. Petska,
Engineer

38525
R-38583

April 29, 1963.

Laurence A. Cushing
Attorney at Law
P.O. Box 234
Cave Junction, Oregon

Dear Mr. Cushing:

This will acknowledge recording fees in the sum of \$10 necessary to applications numbered 38525 and R-38583 filed in the name of Rough and Ready Lumber Co. Our receipts numbered 37780 and 37781 are enclosed.

The applications will be considered for approval by issuance of permits with the next group.

Very truly yours,

CHRIS L. WHEELER
State Engineer

By
Walter N. Perry, Assistant

gcc

Enc: Receipts numbered
37780 and 37781

38525
R-38583

April 22, 1963

Laurence A. Cushing
Attorney at Law
P.O. Box 234
Cave Junction, Oregon

Dear Mr. Cushing:

This will acknowledge your letter of April 4, 1963 submitting two applications in the names of Lew F. Krauss, Helen C. Krauss, Fred R. Krauss, Lewis N. Krauss and John P. Krauss, dba Rough and Ready Lumber Co.; one for a permit to appropriate 0.5 cubic foot of water per second from Rough and Ready Creek to maintain a log pond for industrial use, and one for a permit to enlarge Rough and Ready Mill Pond for the storage of 60 acre feet of water from Rough and Ready Creek for log storage and industrial use, a map and fees in the sum of \$25 for which our receipts numbered 37450 and 37601 are enclosed.

The applications have been examined and filed in the order of their acknowledgment under files numbered 38525 and R-38583. The applications appear to have been completed in satisfactory form and upon receipt of additional recording fees in the sum of \$5 to accompany each application, we may give further consideration to the approval of the applications by issuance of permits.

Very truly yours,

CHRIS L. WHEELER
State Engineer

By
Walter N. Perry, Assistant

WNP/gcc

Enc: Receipts numbered
37450 and 37601

LAURENCE A. CUSHING
ATTORNEY AT LAW
P. O. BOX 234
CAVE JUNCTION, OREGON

RECEIVED
APR 4 1963
STATE ENGINEER
SALEM, OREGON

TELEPHONE 6711

BANK BUILDING

April 2, 1963

State of Oregon
State Engineer Water Resources Department
516 Public Service Building
Salem 10, Oregon

Re: File No. R29970

Attention: Mr. Walter N. Perry
Assistant

Dear Mr. Perry:

In accordance with your letter of March 26th, and our more recent telephone conversation, I am resubmitting the application for permit to construct a reservoir. This should be considered in conjunction with our recent permit or application for additional water.

Also, the diversion ditch, etc., is identical with the material on file in your office, and the present pond has been constructed immediately adjacent to the pond system as shown by the records in your office. You will note in the remark section of the application, that while the total depth of the pond could be 15 feet, the level above the ground level would be only approximately 10 feet since the earth was scooped out, and the earth removed was used for a portion of the banks of the pond itself.

Would you also please consider this as amended to our recent application for additional water right with regard to the uses to be made of the water. The uses are as follows:

1. For storage of logs;
2. To facilitate movement of logs in and about the sawmill plant;
3. For purpose of washing dirt, rock and other debris from logs prior to their entry into the sawmill;
4. For fire protection in conjunction with the 20 HP pump with 100 lbs., pressure;
5. To run sprinkler system in and about the sawmill plant to control fire danger;
6. For sprinkling of cold decks;
7. Pumping therefrom to two band saws;
8. For carrying water to bearings in the sawmill burner;
9. For lumber treating process;
10. For filling water storage tanks on the brake system of logging trucks dumping into the mill ponds, which are approximately 25 in number per day;
11. For dipping vats;
12. For sanitary purposes.

You will note that this is approximately a 100,000 per day capacity sawmill, and that the demand for water for all purposes is considerable.

We would also like to call your attention to the fact that the soil in this area is very porous, being rocky in nature, and an excessive amount of loss is experienced through the ditch and in the pond system as well as evaporation in the hotter periods of the Summer, because of the resulting loss from these sources, and the demand

LAURENCE A. CUSHING
ATTORNEY AT LAW
P. O. BOX 234
CAVE JUNCTION, OREGON

BANK BUILDING

TELEPHONE 6711

State of Oregon

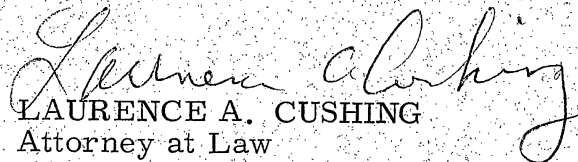
-2-

April 2, 1963

for use as above detailed, there is a need for the amount of water under permit plus the additional amount being applied for, and waste will not occur if this amount of water is allowed.

Thanking you for your courtesy and consideration in this matter, I remain,

Very truly yours,


LAURENCE A. CUSHING
Attorney at Law

LAC:rs
encls.

October 15, 1964

Mr. Laurence A. Cushing
Attorney at Law
P. O. Box 234
Cave Junction, Oregon

Dear Mr. Cushing:

In response to your letter of October 13, 1964, the Krauss' should file a Form B, a copy of which was enclosed with their permit. When they have completely applied the water to beneficial use they should then file Form C. The Krauss' engineer who I assume to be Mr. Templin, should file a report to this office that the project was completed in accordance with the approved plans and specifications.

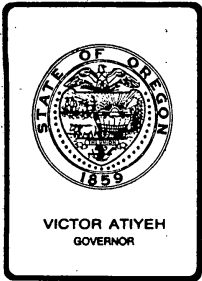
Very truly yours,

CHRIS L. WHEELER
State Engineer

By
A. M. Petska
Engineer

AMP:jb

CC: R. L. Templin, Jr.
Registered Engineer
Josephine County
Room 120, Courthouse
Grants Pass, Oregon



Water Resources Department

MILL CREEK OFFICE PARK

555 13th STREET N.E., SALEM, OREGON 97310

PHONE 378-8508

August 1, 1984

Schultz, Salisbury, Cauble & Medley
Attorneys at Law
PO Box 378
Grants Pass, Oregon 97526

REFERENCE: Files Numbers **R-38583** and 38525

Attention: Louis F. Schultz, Jr.,

We have received from you the two requests for assignment of Permits Numbered R-3881 and 29196 from Lew F. Krauss, et.al., dba Rough and Ready Lumber Company to Indian Hill Timber Company along with your check #021946 in the amount of \$20 for recording fees. As discussed by telephone this date with Angie in your office, I am returning your check and the forms herein.

Permits Numbered R-3881 and 29196 were issued Certificates of Water Right recorded at pages 35148 and 35149, respectively, on July 16, 1968. There is no provision for changing names once the certificate has been issued confirming the water right. The right becomes at that point, an appurtenance to the land and passes automatically to the new owner at the time of sale.

Copies of the certificates, if needed, can be requested through this office, along with \$2.50 in copy fees, or through the Water-master's office in Grants Pass.

If you have any questions, please contact us.

Sincerely,

Steven P. Applegate
Senior Water Rights Examiner

**SCHULTZ, SALISBURY,
CAUBLE & MEDLEY**
ATTORNEYS AT LAW
POST OFFICE Box 378
GRANTS PASS, OREGON 97526

No 021946

24-12
1230-427

DATE 7-26-84

PAY TWENTY AND 00/100-----DOLLARS \$20.00

TO THE
ORDER
OF

WATER RESOURCES
DIRECTOR

SCHULTZ, SALISBURY,
CAUBLE & MEDLEY

FIRST NATIONAL BANK OF OREGON
GRANTS PASS BRANCH GRANTS PASS, OREGON

⑆123000⑆23⑆427 003745 ⑆⑆

R-38583
38525

July 16, 1968

Rough & Ready Lumber Company
P. O. Box 326
Cave Junction, Oregon 97523

Gentlemen:

This will acknowledge receipt of \$2.00 certificate recording fees for which our receipts numbered 10512 and 10513 are enclosed.

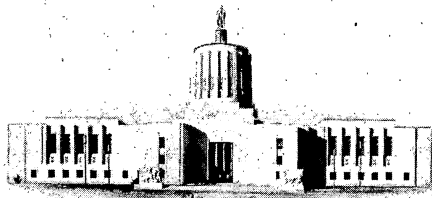
We did not receive the signed proofs of appropriation of water in connection with your permits numbered 29196 and R-3881. Before we can issue the certificates of water right, we will need to receive the final proofs from you.

Very truly yours,

CHRIS L. WHEELER
State Engineer

By
Myron V. Bish
Assistant

MVB:kmh
Enclosures



STATE OF OREGON
STATE ENGINEER
WATER RESOURCES DEPARTMENT
516 PUBLIC SERVICE BUILDING
SALEM 97310

R-38583
REFER TO
FILE NO. 38525

July 9, 1968

Lew F. Krauss, Helen C. Krauss,
Fred R. Krauss, Lewis N. Krauss,
John P. Krauss, dba Rough & Ready Lumber Company
P. O. Box 222
Cave Junction, Oregon 97523

Dear Sirs and Madams:

Enclosed is the final proof in connection with the
incomplete water right represented by your permit No. ^{R-3881}
and 29196.

The data contained in the proof, which is based on
an inspection and survey of your project made by a representa-
tive of this department, defines the extent to which your water
right has been completed within the terms of your permit. The
proof should be dated and signed by you and returned to this
office.

Upon receipt of the proof, properly executed and
accompanied by the statutory recording fee of \$1, a certificate
of water right will be issued confirming the right thereunder
and, after being recorded in the county records, will be for-
warded to you.

Very truly yours,

CHRIS L. WHEELER
State Engineer

Form 117

Enclosure

knh

Please submit \$1.00 for each permit.

38525
R-38583

May 24, 1965

Laurence A. Cushing
Attorney At Law
P. O. Box 234
Cave Junction, Oregon

Dear Mr. Cushing:

This will acknowledge receipt of form C, notice of complete application of water to beneficial use under permits 29196 and R-3881.

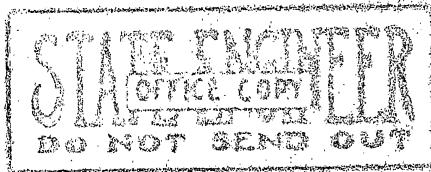
There will be no further notices required from the Rough & Ready Lumber Company as to the project described under these permits. The confirming water right certificates will be issued on these permits following the customary final proof survey which will be made at a later date by a representative of this office.

Very truly yours,

CHRIS L. WHEELER
State Engineer

By
C. O. Bartels
Assistant

COB:caw



RECEIVED
 FEB 24 1964
 STATE ENGINEER
 SALEM, OREGON

ENGINEER'S STATEMENT

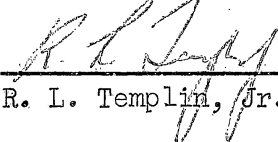
I Richard L. Templin, Jr., Registered Engineer No. 3024, State of Oregon, hereby certify that I did execute a survey of the existing log storage ponds of the Rough and Ready Lumber Company of Cave Junction, Oregon, as shown on the attached plats.

The dikes have been constructed from excavated soil containing river gravel and red clay. A portion of the dike extending from Station 8+00 to Station 10+00, was not constructed to original design dimensions and should be widened and raised to dimensions as shown.

A concrete spillway should also be constructed to dimensions shown, of good quality concrete testing 3000 lbs./sq. in. or more at 28 days. Existing spillways are inadequate for a large storm runoff if ditch intake was accidentally left open.

The rest of the dike structure appears to be adequate showing little sign of seepage, and it is my opinion that if the deficiencies stated above were corrected as shown on the attached drawing, that the storage ponds would be structurally sound for normal log storage use.

Dated February 21, 1964.



 R. L. Templin, Jr., Registered Engineer

