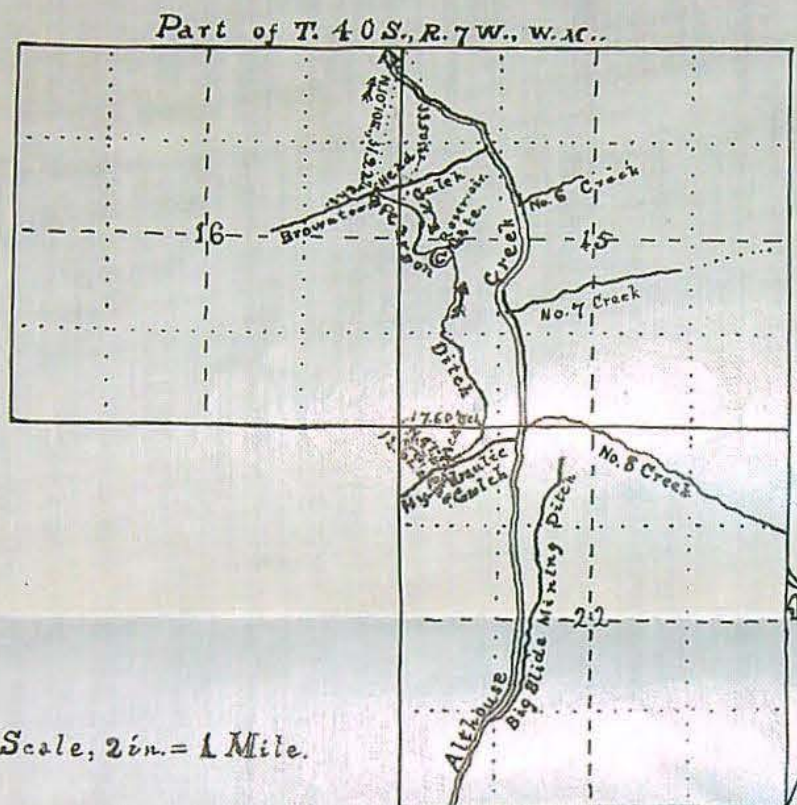


5397
3353 MAP
OF
PEARSON
MINING DITCH.



CERTIFICATE OF SURVEYOR.

I, N. P. Stilson, of Holland, Oregon, do hereby certify that this map was made from notes taken during an actual survey made by me, on Jan 10-16, 1917, and that it correctly represents the works described in the accompanying application, together with the location of streams and other ditches in the immediate vicinity.

N. P. Stilson,

Surveyor.

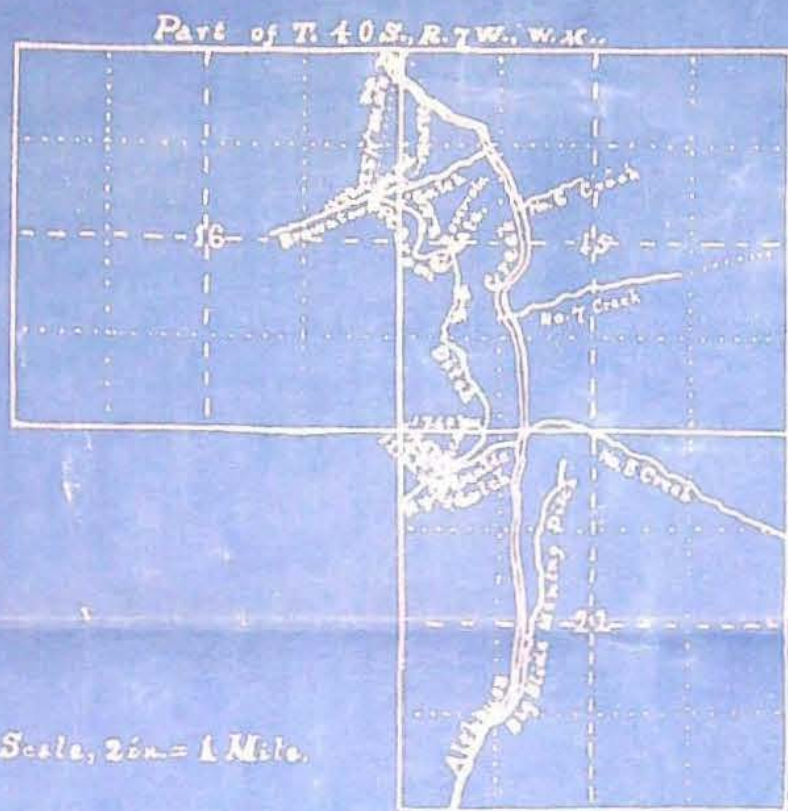
NOTES.

A, Head, point of diversion from Hydraulic Gulch. Bearing; N.W. Corner, Sec. 22, Bears N. 47° W., 12.62½ Chains distant.

B, Head, point of diversion from Browtown Gulch. Bearing; N.E. Corner, Sec. 16, Bears N. 10° 10' E., 31.22½ Chains distant.

C, Reservoir.

5397
3353 MAP
OF
PEARSON
MINING DITCH.



CERTIFICATE OF SURVEYOR.

I, N. P. Stilson, of Holland, Oregon, do hereby certify that this map was made from notes taken during an actual survey made by me, on Jan 10-16, 1917, and that it correctly represents the works described in the accompanying application, together with the location of streams and other ditches in the immediate vicinity.

N. P. Stilson,

Surveyor.

NOTES.

- A, Head, point of diversion from Hydraulics Culch. Bearing: N.W. Corner, Sec. 16. Bears N. 47° W., 12.625 Chains distant.
B, Head, point of diversion from Brownstown Culch. Bearing: N.E. Corner, Sec. 16. Bears N. 10° 10' E., 31.225 Chains distant.
C, Reservoir.

23dJ

Permit No. 3353.
Application No. 5397.

H. J. Pearson:

The holder of this permit has fulfilled all the provisions of the application. The water is taken from two gulches--Browntown Gulch and Hydraulic Gulch--the water being conveyed in good ditches to a small reservoir right over the mining property, a "hand-shooter" being constructed in this reservoir and another ditch under the reservoir to catch any waste water, there being a "self-shooter" in this ditch that furnishes the by-wash for the mine. The "hand-shooter" is operated from the mine by a cable and after being used in the mine goes direct into the main channel of the Althouse of which the two gulches are tributary.

In my estimation the applicant has fulfilled all requirements and I would recommend that a certificate be issued.

Respectfully submitted,

M. L. Oudyzke
Water Master District No. 16.

EXCHANGE BOND

Permit No. ૩૩૫૩

Application No. 0397

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

1. Name H. J. Pearson

3. For what purpose is water used? mining (2500 ft.)

I did

5. Give the date of completion of such construction work. On or before Jan. 1, 1918.

6. When was all the water completely applied to the proposed use? On or before March 1, 1918.

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.

[illegible]

8. During what months is water beneficially used? *For mining only, say from Oct. 15th to the following June 30th.*
9. State the character of the soil and kind of crops raised
10. Does the accompanying blue print of the map filed with your permit show correctly the location of diverting works and area of land where water is used?
11. If not, state 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 *For Hydraulic Mining on 140 acres of mining ground. Amount of water used is 25 second feet.*

STATE OF OREGON,

County of *Josephine*

ss.

I, *H. J. Pearson*, 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 *17th* day of *August*, 191*8*.

Subscribed and sworn to before me this *17th* day of *August*, 191*8*.

(Notarial Seal)

J. E. Hodgdon
Notary Public for Oregon.

My commission expires *Jan. 30th 1920*

AFFIDAVIT OF WITNESSES

We, Wm Roberson, and M. W. Gates,
of Holland 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. 3353; 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.

Wm Roberson
M. W. Gates

Subscribed and sworn to before me this 17th day of August, 1918.

(Notarial Seal)

J. E. Hodgdon
Notary Public for Oregon.
My commission expires Jan. 20th 1920

PROOF OF APPROPRIATION

Permit No. 3353

1.00

fee paid

Receipt 2672

OFFICE OF STATE WATER BOARD
RECEIVED

AUG 21 1918

SALEM. OREGON.

Approved: _____

Priority date - Feb 10, 1917

OFFICE OF STATE WATER BOARD
RECEIVED

AUG 27 1918

SALEM. OREGON.

NOTICE OF COMPLETE APPLICATION OF WATER TO A BENEFICIAL USE

I, H. J. Pearson, the holder of Application No. 5397, being
 Permit No. 3353, issued by the State Engineer of the State of Oregon
 (Reservoir or Enlargement) for the appropriation of 2.5 second-feet of the waters of Brownstown and Hydraulic Gulches
 in accordance with the tenor of such permit and the limitations endorsed thereon by the State Engineer,
 completely applied the water to a beneficial use, on the 19th day of April, 1918,
 being the time limitation as fixed in said permit or extended by the State Water Board for the complete
 application of water to a beneficial use.

Remarks:

If all of the water granted in the permit had not been fully applied to beneficial use, you should so state, so that delinquent appropriators may

have notice.

IN WITNESS WHEREOF, I have hereunto set my hand this 19th day of April, 1918.

Holland, Oregon
 (Present Address)

H. J. Pearson
 (Signature of Applicant)

Fill out, detach, and mail to the Secretary, State Water Board, Salem, Oregon.

NOTICE OF COMPLETION OF CONSTRUCTION

I, H. J. Pearson, the holder of Application No. 5397, being
 Permit No. 3353, issued by the State Engineer of the State of Oregon
 (Reservoir or Enlargement)

for the appropriation of 2.5 second-feet of the waters of Brownstown & Hydraulic Gulches
 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 the 24th day of March, 1918,
 being within the time limitation as fixed in said permit or extended by the State Water Board 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 WITNESS WHEREOF, I have hereunto set my hand this 24th day of March, 1918.

Holland Oregon
 (Present Address)

H. J. Pearson
 (Signature of Applicant)

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

NOTICE OF BEGINNING OF CONSTRUCTION

I, H. J. Pearson, the holder of Application No. 5397, being

Ditch and reservoir Permit No. 3353, issued by the State Engineer of the State of Oregon
 (Reservoir or Enlargement) for the appropriation of 2.5 cubic second-feet of the waters of Brownstown and Hydraulic Gulches
 in accordance with the tenor of such permit and the limitations endorsed thereon by the State Engineer,
 began the actual construction of the works described therein on the 1st day of Feb, 1918,
 being within the time limitation as fixed in said permit for the beginning of construction work.

I have both ditches dug, using part of the water, but have to
 The appropriator should state the manner of beginning construction work, number of men and teams employed, the amount of work completed up to the date of this

go over both ditches and raise reservoir dam 4 ft, which
 statement, and any additional information which may tend to show the beginning of work in good faith.

work I intend to do this summer. I employ one, used team and mule
7 days on present dam

IN WITNESS WHEREOF, I have hereunto set my hand this 3rd day of June, 1917.

Holland Oregon
 (Present Address)

H. J. Pearson
 (Signature of Applicant)

Fill out, detach, and mail to the Secretary, State Water Board, Salem, Oregon.

August 27, 1918.

Mr. H. J. Pearson

Holland, Oregon.

Dear Sir:

Proof of appropriation of water under permit No. 3353, together with \$1.00 recording fee, has been received and filed in this office.

Owing to the size of this appropriation, it will be necessary that an inspection of the premises be made, before final water right certificate can be issued. If it is found necessary to delay this inspection, your rights will not be jeopardized in any way.

Yours very truly,

R. W. Potter,
Secretary.

GB.

August 21, 1918.

Mr. H. J. Pearson

Holland, Oregon.

Dear Sir:

I am in receipt of proof of appropriation of water under permit No. 3353, together with check for \$1.00 in favor of E. L. Coburn, County Clerk.

I am returning the proof and will ask that you state, in answer to question 13, the number of cubic feet per second of water which you divert from the stream.

In view of the fact that it may be some time before final certificate can be issued on this permit, I am returning your check in favor of the County Clerk and will ask that the same be endorsed in favor of the State Water Board, or another check issued in its place so that we may deposit the same.

Yours very truly,

RWP:B

R. W. Potter,
Secretary.

June 25, 1918.

Mr. H. J. Pearson

Holland, Oregon.

Dear Sir:

I am enclosing blank for proof of appropriation of water under permit No. 3253.

I note that you have until October 1, 1920 in which to completely apply the water to the proposed use under this permit. If all the water which you contemplate using under this permit has not been used, you should withhold the enclosed proof until the expiration of the time allowed for the completion of your right, or until such time as you have applied all the water which you intend to use. However, if all the water which you desire to use under this permit has been used, you should fill out the enclosed proof and return to this office, together with \$1.00 to cover recording fee, and the matter will be presented to the Board at its next meeting for approval and issuance of final water right certificate.

Yours very truly,

R. W. Potter,
Secretary.

GB.

Mr. John H. Lewis

State Engineer, Salem Oregon

Dear Sir:

Inclosed find 1st blank notice of construction. I have made it out to the best of my ability, but want to 2 of that we dug both ditches and put in the reservoir dam. Last year, started work about the 1st of May, and have used the water to mine with this last winter, but have to work and bank both ditches this year where cattle have used the ditch banks for trails and trodden them out. Also want to raise the reservoir dam 4 feet yet as called for in the application.

would be glad to have any instructions or advice you could give me.

Hope notice is satisfactory

Yours truly
Per Act. H. J. Pearson

Holland Oregon

P.S. Had Henry Petersens time of construction run out or is he to be using the water now?

Fall or Grade of Pearson Ditch.
Application No. 5397.

Hydraulic Gulch Part.

At Head, or point of diversion ^{from} Hydraulic Gulch, Fall in 1000 feet, 9.13 feet, for 3392 ft. (= 51.39 chs.)

At 3392 ft. (= 51.39 chs.) from said head; Fall to 1000 ft., 136.36 ft., for 99 ft. (= 1.50 chs.)

At 3491 ft. (= 52.89 chs.) Fall to 1000 ft., 18.46 ft., for 325 ft. (= 4.92 chs.) to end, at reservoir gate.

Browntown Gulch Part.

At Head, or point of diversion from Browntown Gh., Fall in 1000 ft., 10.55 ft., for 1306 ft. (= 19.79 chs.)

At 1306 ft. (= 19.79 chs.) from said head; Fall to 1000 ft., 276.47 ft., for 85 ft. (= 1.29 chs.)

At 1391 ft. (= 21.08 chs.) Fall to 1000 ft., 18.92 ft., for 317 ft. (= 4.80 chs.) to end, at reservoir gate.

N. P. Stilson,
Surveyor.

OFFICE OF STATE ENGINEER
RECEIVED
MAY 14 1917
SALT LAKE CITY, UTAH

A-5397
P-3353

5397

May 28, 1917

Mr. H J Pearson,
Holland, Josephine Co.,
Oregon.

Dear Sir:- Herewith you will find Application No. 5397, being Permit No. 3353,
together with tracking. This application has been approved and recorded in this
office.

Application No. 5397.

May 15, 1917.

H. Pearson
90 Mr. H. P. Stilson,
Holland, Oregon.

Dear Sir:

Upon taking up for approval your application No. 5397 for permit to appropriate water for mining purposes, I note that you desire to use the water of two small streams tributary to Althouse Creek. Before approving the application we would like to have you waive the right to the use of this water in case it is needed for irrigation or storage purposes above. I am enclosing a short statement of waiver and will ask that you sign and return the same to be attached to your application and the permit will be limited accordingly.

Very respectfully,

John H. Lewis,

State Engineer.

RS.

Application No. 5397.

May 8, 1917.

Mr. H. P. Stilson,
Holland, Oregon.

Dear Sir:

Enclosed please find my official receipt No. 5212 for \$2.00, which amount was transmitted with your letter of the 5th instant together with application for permit to appropriate water in the name of H. J. Pearson. I am also in receipt of two tracings. The application appears now to be in form and will be taken up for approval as soon as the same can be reached and you will be further advised.

Very respectfully,

John H. Lewis,

State Engineer.

RS.
Enc.

5397

Holland, Oregon,
May 5, 1917,

Mr. John H. Lewis,
State Engineer,
Salem, Oregon.

OFFICE OF STATE ENGINEER
RECEIVED
MAY 1917
SALEM, OREGON

Sir:

Inclosed find Mr. Smock's check
for \$2.00 in payment for the balance of recording
fee due from Mr. H. G. Pearson, on his water right application.
I send completed application, with accompanying maps,
for Mr. Pearson.

I hope that it will reach you in time.

Respectfully Yours,

N. P. Stilson.

Read off 5397

5397

5397

NOTES BY STATE ENGINEER
RECEIVED
APR 6 1917
SAL. ENG. & CIV. ENGINEER

Holland, Oregon,
April 3, 1917.

Mr. John H. Lewis,
State Engineer,
Salem, Oregon.
Sir:

Before coming to the post office at Holland, today, I went to Mr. Pearsons to see if he had received any communication from your office, but he had not. Unless a letter from you had been carried by his place today, nothing has reached here for him yet.

So I mail the letter that I wrote yesterday, without any alteration.

Respectfully Yours,
N. P. Stilson.

No reply

RECEIVED
APR 6 1917
SAL. ENG. OFFICE

Holland, Oregon,
April 2, 1917.

Mr. John H. Lewis,
State Engineer,
Salem, Oregon.

Sir:

On going to Mr. St. J. Pearson's a few days ago, and inquiring for the water right application, to fill out, I learned that it had not been received by him. As you proposed to hold it till March 1st, and then return it for correction; if you sent it, it has been lost in the mails.

When you next send, please send it to me. As I may be away from home, surveying, when it reaches Holland, please allow till about the 15th inst. for its return, corrected with maps, to your office.

We wish to make, as part of the correction, by your leave, a change of name, from the long awkward one of "Brown-town Gulch-Hydraulic Gulch Mining Ditch," to the simple, appropriate name, "Pearson Mining Ditch."

That will be the name, anyway, that it will be called by, in the community.

Respectfully Yours,
N. P. Stilson.

No Reply

Application No. 5397.

April 6, 1917.

Mr. H. J. Pearson,
Holland, Oregon.

Dear Sir:

In accordance with our understanding I am returning herewith your application No. 5397 for permit to appropriate water for mining purposes for completion, balance of fees and maps. The total fees on this application amount to \$8.00 of which \$6.00 has been paid. I am enclosing a copy of instructions which will give the information in regard to the preparation of maps to be filed with the application.

In order to retain its original date of priority, this application completed and accompanied by the required fees and maps should be returned to this office on or before May 7, 1917.

Very respectfully,

John H. Lewis,

State Engineer.

RS.
Enc.

*Permit No.....

APPLICATION FOR A PERMIT

To Appropriate the Public Waters of the State of Oregon

I, H. J. Pearson,

(Name of Applicant)

of Holland

(Postoffice)

County of Josephine,

State of Oregon

, do hereby make application for a permit to appropriate the following described public waters of the State of Oregon, subject to existing rights:

If the applicant is a corporation, give date and place of incorporation.....

Hydraulic Gulch and

1. The source of the proposed appropriation is Browntown Gulch

(Name of stream)

, tributary of Althouse Creek

2. The amount of water which the applicant intends to apply to beneficial use is 1 1/2

cubic feet per second.

3. The use to which the water is to be applied is mining

(Irrigation, power, mining, manufacturing,

domestic supplies, etc.)

4. The point of diversion is located.....

(Give distance and bearing to section corner)

NW 1/4 NW 1/4

Sec. 22

being within the S. E. 1/4 of N. E. 1/4

(Give smallest legal subdivision)

of Sec. 16

, Tp. 40 S.

(No. N. or S.)

R. 7 N.

(No. E. or W.)

W. M., in the county of Josephine,

Ditch from Hydraulic Gulch

3773 ft. (57.16 2/3 chs.)

5. The Main ditch from Browntown gulch to be 1708 ft. (25.88 chains)

(Main ditch, canal or pipe line)

miles in length, terminating in the.....

(Smallest legal subdivision)

of Sec.

Tp.

(No. N. or S.)

R.

(No. E. or W.)

W. M., the proposed location being shown throughout on the accompanying map.

6. The name of the ditch, ~~canal or other works~~ is Browntown Gulch

Mining Ditch & Hydraulic Gulch Mining Ditch

DESCRIPTION OF WORKS

DIVERSION WORKS—

7. (a) Height of dam.....feet, length on top.....feet, length at bottom

feet; material to be used and character of construction.....

(Loose rock, concrete,

No dam is required. All the water of the small stream
masonry, rock and brush, timber crib, etc. wasteway over or around dam)

will be conducted into the ditch. If needed, a wastegate
will be put in below head.

(b) Description of headgate.....

(Timber, concrete, etc., number and size of openings)

No headgate is required.

CANAL SYSTEM—

8. (a) Give dimensions at each point of canal where materially changed in size, stating miles from headgate. At headgate: Width on top (at water line) $3\frac{1}{4}$ feet; width on bottom 2 feet; depth of water $1\frac{1}{4}$ feet; grade _____ feet fall per one

thousand feet. *Near end of ditch, water is dropped down a slope, in a smaller ditch, with less depth of water.*

(b) At _____ miles from headgate. Width on top (at water line) _____ feet; width on bottom _____ feet; depth of water _____ feet; grade _____ feet fall per one thousand feet.

FILL IN THE FOLLOWING INFORMATION WHERE THE WATER IS USED FOR:

IRRIGATION—

9. The land to be irrigated has a total area of _____ acres, located in each smallest legal subdivision, as follows:

(Give area of land in each smallest legal subdivision which you intend to irrigate)

(If more space required, attach separate sheet)

POWER, MINING, MANUFACTURING, OR TRANSPORTATION PURPOSES—

10. (a) Total amount of power to be developed _____ theoretical horsepower.

(b) Total fall to be utilized 190 feet. *(From Penstock to Giant)*
(Head)

(c) The nature of the works by means of which the power is to be developed _____

(d) Such works to be located in *West Half* of Sec. *15*,
(Legal subdivision)
Tp. *40 S.*, R. *7 W.*, W. M.
(No. N. or S.) (No. E. or W.)

(e) Is water to be returned to any stream? *Yes*
(Yes or No)

(f) If so, name stream and locate point of return *Althouse Creek*,
in *N. 1/2*, Sec. *15*, Tp. *40 S.*, R. *7 W.*, W. M.
(No. N. or S.) (No. E. or W.)

(g) The use to which power is to be applied is _____

(h) The nature of the mines to be served *Hydraulic Placer Mines.*

MUNICIPAL SUPPLY—

11. To supply the city of _____
 _____ County, having a present population of _____, and an
 (Name of)
 estimated population of _____ in 191____

(Answer questions 12, 13, 14, and 15 in all cases)

12. Estimated cost of proposed works, \$ 1,250.00
 13. Construction work will begin on or before March 1st, 1918.
 14. Construction work will be completed on or before March 1st, 1919.
 15. The water will be completely applied to the proposed use on or before June 1st, 1919.

Duplicate maps of the proposed ditch or other works, prepared in accordance with the rules of the State Water Board, accompany this application.

H. J. Pearson
 (Name of applicant)

Signed in the presence of us as witnesses:

- (1) Arthur V. Pearson Hall and Oregon
 (Name) (Address of Witness)
 (2) N. P. Stinson Holland, Oregon.
 (Name) (Address of Witness)

Remarks: This ditch as well as hydraulic mining ditch, applied for by the same applicant, is to end in a small storage reservoir, to cover about an acre of surface for storage of night water, formed by a dam ^{composed} of earth between walls of logs, length about 150 feet. Outlet gate built of timber. Depth of water at outlet, ^{average depth, about 4 feet} about 10 feet. Combined capacity 25 second feet. From said reservoir, the water is to pass down a race for about 175 feet, falling in the course, about 6 feet to a penstock or bulkhead, to which is attached the receiver of the hydraulic pipeline. Fall of pipeline, from penstock to giant is to be about 190 feet. Althouse Creek is a tributary of Illinois River.

STATE OF OREGON, }
 County of Marion, } ss.

This is to certify that I have examined the foregoing application, together with the accompanying maps and data, and return the same for correction or completion, as follows: _____

In order to retain its priority, this application must be returned to the State Engineer, with corrections, on or before _____, 191____

WITNESS my hand this _____ day of _____, 191____

State Engineer.

STATE OF OREGON, }
County of Marion, } ss.

This is to certify that I have examined the foregoing application and do hereby grant the same, subject to the following limitations and conditions: If for irrigation, this appropriation shall be limited to one-eightieth of one cubic foot per second, or its equivalent, for each acre irrigated, and shall be subject to such reasonable rotation system as may be ordered by the proper State officer.....

The amount of water appropriated shall be limited to the amount which can be applied to beneficial use and not to exceed.....cubic feet per second, or its equivalent in case of rotation. The priority date of this permit is.....

Actual construction work shall begin on or before.....and shall thereafter be prosecuted with reasonable diligence and be completed on or before.....

Complete application of the water to the proposed use shall be made on or before.....

WITNESS my hand this.....day of.....

State Engineer.

Permits for power development are subject to the limitation of franchise as provided in Section 6633, Lord's Oregon Laws, and the payment of annual fees as provided in Chapter 213, Session Laws of 1915.

This form approved by the State Water Board, March 11, 1909.

Application No. 5397

Permit No.

PERMIT

TO APPROPRIATE THE PUBLIC
WATERS OF THE STATE
OF OREGON

Division No. District No.

This instrument was first received
in the office of the State Engineer at
Salem, Oregon, on the 10 day
of February, 1917,
at 8:30 o'clock A. M.

Returned to applicant for correction

Corrected application received

Approved

Recorded in Book No. 7 of
Permits, on Page.....

State Engineer.

*Permit No.....

APPLICATION FOR A PERMIT

To appropriate the Public Waters of the State of Oregon

I, H. P. Pearson,
(Name of Applicant)
of Holland, County of Josephine,
(Postoffice)
State of Oregon, do hereby make application for a permit to appropriate the following described public waters of the State of Oregon, subject to existing rights:

If the applicant is a corporation, give date and place of incorporation.....

1. The source of the proposed appropriation is Browntown Gulch and Hydraulic Gulch,
(Name of stream)
tributary of Althouse Creek.

2. The amount of water which the applicant intends to apply to beneficial use is 12 1/2
cubic feet per second.

3. The use to which the water is to be applied is mining.
(Irrigation, power, mining, manufacturing, domestic supplies, etc.)

4. The point of diversion is located.....
(Give distance and bearing to section corner)

SE 1/4 NE 1/4 of Sec. 16
being within the N. W. 1/4 of N. W. 1/4 of Sec. 22, Tp. 40 S.,
(Give smallest legal subdivision) (No. N. or S.)

R. 7 W., in the county of Josephine.
(No. E. or W.)

5. The Hydraulic Ditch from Browntown Gulch 1708 ft. (25.88 chains)
main ditch ----- to be 377.3 ft. (57.16 2/3 chains)
(Main ditch, canal or pipe line)

miles in length, terminating in the..... of Sec....., Tp.....
(Smallest legal subdivision) (No. N. or S.)

R. W. M., the proposed location being shown throughout on the accompanying map.
(No. E. or W.)

6. The name of the ditch, canal or other works is Hydraulic Gulch Mining Ditch & Browntown Gulch Mining Ditch

DESCRIPTION OF WORKS

DIVERSION WORKS—

7. (a) Height of dam.....feet, length on top.....feet, length at bottom.....feet; material to be used and character of construction.....
(Loose rock, concrete,

No dam is required. All the water of the small stream
masonry, rock and brush, timber crib, etc., wasteway over or around dam)

will be conducted into the ditch. If needed a wastegate
will be put in below head.

(b) Description of headgate.....
(Timber, concrete, etc., number and size of openings)

No headgate is required.

CANAL SYSTEM—

8. (a) Give dimensions at each point of canal where materially changed in size, stating miles from headgate. At headgate: Width on top (at water line) $3\frac{1}{4}$ feet; width on bottom 2 feet; depth of water $1\frac{1}{4}$ feet; grade.....feet fall per one thousand feet. *Near end of ditch, water is dropped down a slope, in a smaller ditch, with less depth of water.*

(b) At.....miles from headgate. Width on top (at water line).....feet; width on bottom.....feet; depth of water.....feet; grade.....feet fall per one thousand feet.

FILL IN THE FOLLOWING INFORMATION WHERE THE WATER IS USED FOR:
IRRIGATION—

9. The land to be irrigated has a total area of.....acres, located in each smallest legal subdivision, as follows:
(Give area of land in each smallest legal subdivision which you intend to irrigate)

(If more space required, attach separate sheet)

POWER, MINING, MANUFACTURING, OR TRANSPORTATION PURPOSES—

10. (a) Total amount of power to be developed.....theoretical horsepower.

(b) Total fall to be utilized 190 feet. *(From Penstock to Giant.)*
(Head)

(c) The nature of the works by means of which the power is to be developed.....

(d) Such works to be located in *West half* of Sec. *15*,
(Legal subdivision)
Tp. *40 S.*, R. *7 W.*, W. M.
(No. N. or S.) (No. E. or W.)

(e) Is water to be returned to any stream? *Yes.*
(Yes or No)

(f) If so, name stream and locate point of return *Althouse Creek*,
in N. $\frac{1}{2}$, Sec. *15*, Tp. *40 S.*, R. *7 W.*, W. M.
(No. N. or S.) (No. E. or W.)

(g) The use to which power is to be applied is.....

(h) The nature of the mines to be served *Hydraulic Placer*
Mines.

MUNICIPAL SUPPLY—

11. To supply the city of.....
(Name of).....County, having a present population of....., and an
estimated population of.....in 191....

(Answer questions 12, 13, 14, and 15 in all cases)

12. Estimated cost of proposed works, \$125000.....
13. Construction work will begin on or before March 1st, 1918.....
14. Construction work will be completed on or before March 1st, 1919.....
15. The water will be completely applied to the proposed use on or before June 1st, 1919.....

Duplicate maps of the proposed ditch or other works, prepared in accordance with the rules of the
State Water Board, accompany this application.

H. J. Barrow
(Name of applicant)

Signed in the presence of us as witnesses:

- (1) Arthur W. Pearson, Holland Oregon
(Name) (Address of Witness)
(2) N. P. Stilson, Holland Oregon
(Name) (Address of Witness)

Remarks: This ditch as well as Brown town Gulch Mining Ditch, applied for
by the same applicant, is to end in a small storage reservoir, to cover about one
acre of surface, for storage of night water, formed by a dam composed of, earth between
walls of logs; length about 150 feet. Outlet gate built of timber. Depth of
water at outlet, about 10 feet. Average depth, about 4 feet. Combined capacity 25 second feet.
From said reservoir, the water is to pass down a race, for about 175 feet, (fall-
ing in the course, about 6 feet,) to a penstock or bulkhead, to which is attached
the receiver of the hydraulic pipe line. Fall of pipe line, from pen-
stock to giant is to be about 190 feet.

Althouse Creek is a tributary of Illinois River.

STATE OF OREGON, }
County of Marion, } ss.

This is to certify that I have examined the foregoing application, together with the accompanying
maps and data, and return the same for correction or completion, as follows:

In order to retain its priority, this application must be returned to the State Engineer, with correc-
tions, on or before....., 191....

WITNESS my hand this.....day of....., 191....

State Engineer.

STATE OF OREGON,

County of Marion,

} ss.

This is to certify that I have examined the foregoing application and do hereby grant the same, subject to the following limitations and conditions: If for irrigation, this appropriation shall be limited to one-eightieth of one cubic foot per second, or its equivalent, for each acre irrigated, and shall be subject to such reasonable rotation system as may be ordered by the proper State officer.....

The amount of water appropriated shall be limited to the amount which can be applied to beneficial use and not to exceed.....cubic feet per second, or its equivalent in case of rotation. The priority date of this permit is.....

Actual construction work shall begin on or before.....and shall thereafter be prosecuted with reasonable diligence and be completed on or before.....

Complete application of the water to the proposed use shall be made on or before.....

WITNESS my hand this.....day of.....

State Engineer.

Permits for power development are subject to the limitation of franchise as provided in Section 6633, Lord's Oregon Laws, and the payment of annual fees as provided in Chapter 213, Session Laws of 1915.

This form approved by the State Water Board, March 11, 1909.

15
5397
Application No. 5397
Reservoir Permit No.
PERMIT
TO APPROPRIATE THE PUBLIC
WATERS OF THE STATE
OF OREGON

Division No. District No.

This instrument was first received
in the office of the State Engineer at
Salem, Oregon, on the 10 day
of February, 1917,
at 8:30 o'clock A. M.

Returned to applicant for correction

Corrected application received

Approved:

Recorded in Book No. of
Permits, on Page.

State Engineer.

Application No. 5397.

February 21, 1917.

Mr. H. P. Stilson,
Holland, Oregon.

Dear Sir:

I am in receipt of your letter of the 18th instant transmitting application for permit to appropriate water in the name of H. J. Pearson to be substituted for his application No. 5397. This application has been placed on file in this office and in accordance with your request the same will be held until Mar. 1, 1917, before being returned for completion, maps and balance of fees.

Very respectfully,

Percy A. Copper,

Assistant State Engineer.

RS.

OFFICE OF STATE ENGINEER

RECEIVED

FEB 21 1917

SALEM, OREGON.

5397

Holland, Oregon,
Feb. 18, 1917.

Mr. John H. Lewis,
State Engineer,
Salem, Oregon.

Sir:

Inclosed find Mr. H. J. Pearson's
new Application No. 5397, which please re-
turn as you suggest, to him for correction about
March 1st, allowing if you please, thirty days for
return of corrected application, with maps as re-
quired.

Respectfully Yours,
N. P. Stilson.

Hold till Mar 1-17

Application No. 5397.

February 20, 1917.

Mr. N. P. Stilson,
Holland, Oregon.

Dear Sir:

In reply to your letter of the 14th instant you are advised that \$2.00 is the balance of fees required on your application No. 5397 for permit to appropriate water for mining purposes.

I am also in receipt of your letter of the 8th instant and after a careful investigation of our records I have been unable to locate the letter to which you refer, nor can I recall any book to which I have referred to you containing this information. The Reclamation Service have a small hand book entitled "Hydraulic and Excavation Tables" which you can I believe secure by writing the Director of the U. S. Reclamation Service, Washington, D. C.

I am sending you under separate cover a copy of our bulletin No. 6 which contains some information relative to the measurement of water by the weir method. This information may be found on page 43.

Trusting this may be of some value to you,
I remain,

Very respectfully,

Holladay, Oregon,
Feb. 8, 1917.

Mr. John H. Lewis,
State Engineer,
Salem, Oregon.

Sir:

Several months ago, replying to an inquiry of mine, regarding proper formulas to use in determining the flow of water, capacity of ditches &c., you kindly advised me of a book that would give me the desired information, giving title of same, and name and address of publisher or dealer. The price given was one dollar.

Not being able at the time to send for it, and having neglected to make a memorandum of it, and having mislaid or lost the letter, I am compelled to trespass on your valuable time, asking you to repeat the information.

Thanking you in advance for the information, I remain,

Respectfully Yours,
N. P. Stilson

5397

Holland, Oregon,
Feb. 14, 1917.

Mr. John St. Lewis,
State Engineer,
Salem, Oregon.
Sir:

Yours of the 10th instant has been received by Mr. H. J. Pearson and turned over to me.

Thanks for the privilege of making the change to one application instead of two.

You will receive the new application in a few days.

As I understand it, the balance that will be due your office for recording the application, will be \$2.00. Is that correct?

Respectfully Yours,
N. P. Stilson.

2.00 due for mailing 6⁰⁰ pd.

Application No. 5397.

February 10, 1917.

Mr. H. J. Pearson,
Holland, Oregon.

Dear Sir:

Enclosed please find my official receipt No. 5018 for \$6.00, which amount was transmitted with your letter of the 7th instant together with your two applications for permit to appropriate water. I note that you suggest that the two applications be combined if this can be done, and we have accordingly filed the applications as number 5397 and in accordance with your request will be held until March 1, 1917, before being returned for completion, balance of fees and maps.

Two or more sources of supply may be combined in one application and the map may be made accordingly. I am enclosing a new application blank and copy of instructions and would suggest that you make out a new application covering both sources of supply and return the same with the map when the same is prepared, and the new application will be substituted for the one on file in this office.

Very respectfully,

Percy A. Cupper,

Assistant State Engineer.

RS.
Enc.

5397

Holland Oregon
Feb. 7-1911.

Mr. John Lewis
State Engineer
Salem Oregon.

OFFICE OF STATE ENGINEER

RECEIVED

FEB 10 1911

SALEM, OREGON.

Dear Sir:

Inclosed find \$6.00
and if it only calls for one fee you can
let the balance go on the remainder.

Yours truly

H. J. Pearson.

U. B. Isn't one application all that is necessary
as it is for one claim and only rain water at that
I think Mr. Wilson is making too much work of it.

RECEIVED
FEB 10 1917
OFFICE

Holland, Oregon,
Feb. 6, 1917.

Mr. John St. Lewis,
State Engineer,
Salem, Oregon.
Sir:

Inclosed you will find two applications for permits for water rights.

I have made the surveys; but, as I must do other surveying before I can stop to make the calculations and make the maps, I have filled out the applications as far as practicable for Mr. Pearson to send to you, which he will shortly do.

As some one might make an application, ahead of him, it is thought best not to wait for the maps.

You will receive examination fees. If approved, please allow thirty days for correction.

Respectfully Yours,
N. P. Stilson.

1 application
Maps to follow. Hold till Mar 1-17