STATE OF OREGON WATER RESOURCES DEPARTMENT CEI

Application for Permit to Appropriate Surface Water RESOURCES DEPT SALEM, OREGON

of Box 41 A	Cower &	2d.	(Name of Applicant)	{zalea
0]		Mailing Address)		(City)
State of Ove	jon	97410	Phone No 837 - 335 C	do her
20000 0,	/	(Zip Code)	1 110116 140	
make applicati	ion for a perm	it to appropriate	the following described we	iters of the State of Oregon:
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54 L S		and	77 SORINAS	
and e	ow creek &	5 Reservoirs	, a tributary of S. Um	naua P
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, , ,	70 5 1/	o'w o'e; w/m su	the point of diversion, each must be describe	1080'N 1870'E WM SEZ
			v4 SW4 . Div. #6:	
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Form 690-1-0-1-77

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pplication No...

Permit No. 43944

Permit to Appropriate the Public Waters of the State of Oregon

This is to certify that I have examined the foregoing application and do hereby grant the same SUBJECT TO EXISTING RIGHTS INCLUDING THE EXISTING FLOW POLICIES ESTABLISHED BY THE WATER POLICY REVIEW BOARD and the following limitations and conditions:

The right herein granted is limited to the amount of water which can be applied to beneficial use and
shall not exceed
. N. 2011 P. 1802 P. 1804
stream, or its equivalent in case of rotation with other water users, fromfourunnamedstreams and
storage of water in five reservoirs to be constructed under application No. R-5817
permit No. R-7800, and Cow Creek.
The use to which this water is to be applied is irrigation and domestic use, being 0.01.cfs from unnamed stream No. 1 for domestic use for two families including the irrigation of not to exceed 1 lawn and garden for each from unnamed stream No. 1, 0.005 cfs from unnamed stream No. 2 for domestic use for one family, 0.375 cfs from unnamed stream No. 2 and reservoirs No. 4.1,2 and 3 for irrigation, 0.225 cfs from the form unnamed stream No. 3 and reservoir No. 4 for irrigation, 0.15 cfs from the form of this appropriation shall be limited to 1/70th of one cubic foot per second
or its equivalent for each acre irrigatedandshallbefurtherlimitedtoadiversionofnotto
exceed3½.acre.feet.per.acre.for.each.acre.irrigated.during.the.irrigation.season
exceed
of.each.year.,
* unnamed stream No. 4 and reservoir No. 5 for irrigation, with any defectency in the avaliable supply of water for irrigation to be made up by diversion from Cow Creek.
and shall be subject to such reasonable rotation system as may be ordered by the proper state officer.
The priority date of this permit is December 12, 1978
Actual construction work shall begin on or before
thereafter be prosecuted with reasonable diligence and be completed on or before October 1, 19.80
Complete application of the water to the proposed use shall be made on or before October 1, 19.81
WITNESS my hand this 20th day of March , 1979

DEPUTY Water Resources Director

DINK

Application for a	Permit to Construct a Reservoir RESOUT
I, Leonard D. Terry	443 Monor Dr Pacifica, Ca.
of. Box 41 A Cow Cr. Rd. (Mailing Address)	, Azalea (City)
State of Oregon	, 974/O, Phone No. 837 - 3350 OK
do hereby make application for a permit to c	construct the Sunnamed reserve
and to store the unappropriated waters of	f the State of Oregon, subject to existing rights.
1. The name of the stream from whice 2,3 \$2 spring from the streams 2,3 \$4.	th the reservoir is to be filled is. 3 unnamed streams Cow Creek
	how it is to be filled(in. Lhannel)
ronds 1,2 & 3 in channel of stream	um #2; Pond 4 in stream #3, Pond 5 in stream
See attached sheet for items 3. The dam will be located in the Of.	er from str # 2 Pond 5 receives water from 3-10 Fond 6 Spring Pond 7 Spring NARTHWEST 4 of Section 28
See attached sheet for items	er from str # 2 Pond 5 receives water from 3-10 Fond 6 Spring Pond 7 Spring NARTHWEST 4 of Section 28
See attached sheet for items 3. The dam will be located in the Other Township 3. SOUTH, Range	er from str # 2 Pond 5 receives water from 3-10 Fond 6 Spring Pond 7 Spring NARTHWEST 4 of Section 28
See attached sheet for items 3. The dam will be located in the of. Township	er from str # 2 Pond 5 receives water from 37 19 Pond 6 Spring Pond 7 Spring Pond 7 Spring NARTHUSST 4 of Section 28
See attached sheet for items 3. The dam will be located in the oxid Township	er from str # 2 Pond 5 receives water from 3-10 Fond to spring Pond To spring Pon
See attached sheet for items 3. The dam will be located in the of. Township	er from str # 2 Pond 5 receives water from 3-10 Pond to spring Pon
See attached sheet for items 3. The dam will be located in the of the formula of	er from str # 2 Pond 5 receives water from 3-10 Fond to spring Pond 7 Sp
See attached sheet for items 3. The dam will be located in the of the maximum height will be Centerline. The top width will be	er from str # 2 Pond 5 receives water from 3-10 Pond to spring Pond 7 Sp
See attached sheet for items 3. The dam will be located in the of the maximum height will be	er from str # 2 Pond 5 receives water from 3-10 Pond to spring Pond 7 Sp

6. Give the location, description, and dimensions of the outlet conduit: Pan at # 10.11

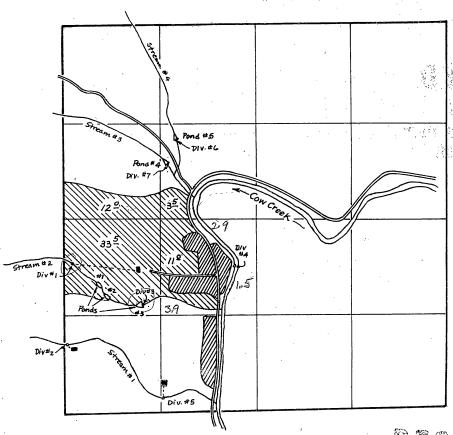
Permit to Construct a Reservoir and Store for Beneficial Use the Public Waters of the State of Oregon

This is to certify that I have examined the foregoing application and do hereby grant the same subject to
the following limitations and conditions. The right herein granted is limited to the construction off.i.ve
reservoirs and storage of water from three unnamed streams to be appropriated
under application No. 58177, permit No. 43944 for irrigation, being 0.15 acre feet
in Reservoir No. 1, 0.4 acre feet in Reservoir No. 2, 0.85 acre feet in Reservoir
No. 3. from stream No. 2; O.3. acre. feet in Reservoir No. 4 from stream No. 3. and.
O.3.acre.feet.in.Reservoir.No5.from.stream.No4.
The right hereunder shall be limited to the storage of
The priority date of this permit is December 12, 1978
Actual construction work shall begin on or before
shall thereafter be prosecuted with reasonable diligence and be completed on or before October 1,
1980
WITNESS my hand this20th day of
DEDITION Water Resources Director

plication No. 58/77 Permit No. 43944

T. 31 S. R. 4 W. W.M.

Section 28



RECEIVED

Scale: 4" = 1 mile

DEC 1 2 1978

Water resources dept. Salem. Oregon

Portions of P# 19730 Cert # 20184



New Irrigation

Div #1: 630'5 and 120'E

Div#2: 1730's and 40'E

Div.#3: 1190'S and 1100'E

Div.#4: 640'S and 2350'E

Div. #5: 2470's and 1360'E Div. #6: 1080'N and 1550'E

Div. #7: 740'N and 1440'E

pond # 1 940'8. \$630'E

All from Wacor. Sec. 28

Other permits

SW NW —

SE NW #44439 (east of creek)

NE SW #19730 (old right shown on app. map)

NW SW Cert #9609 Conflict There are 4.4

There are 4A of adjudicated right on the Terry property.

John Albro is the name and source appears to be unnamed stream #2 on this permit.

RECEIVED

MAR 2 2 1984 WATER RESOURCES DEPT. SALEM, OREGON

Contents of FP Report

Info			
Sources		RECEIVED	The same of
Use		MAR 2 2 1984	
Heads		WATER RESOURCES DEPT.	
Pipe		SALEM, OREGON	
Tie			45
Div. Pts			· · · · · · · · · · · · · · · · · · ·
Sketch	of surveyed area		
Reservoir	Into		
Calculati	ions		1
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MAR 2 2 1004

Terry, Leonard

WATER RESOURCES DEPT.

A# R - 58176 SALEM, OREGON R 7800
58177 43944

Into:

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Mr and Mrs Terry showed me location of field boundaries, reservoirs and Paps. We drave and walked to various areas. An aerial photo supplied and marked by Mr Terry was also used. Photo is w/ field form. I surveyed all of Terry's water development, part of which he did not file on (eg Res # 107 which holds runoff water - no inlet). This was done to obtain a complete picture of what has been done on the property, Terry changed location of several reservoirs. RES # 3, 5). This property is immediately downstream of the Galesville dam site.

Source: 4 ennamed streams, 7 reservoirs, and Cow Creek and 2 springs

I'se: domestic @ families; irrigation of pasture, how, outs; stock

Heads: 10 RB w/ various single port nozzles "los" to 3/16"

1 RB w/ single port 3/16"

(counted on site)

15 max 6 one time per Mrs Terry

1 "Big Gun" type nozzle w/ 5/8" of nozzle

Pressure = 35-80 psi (per Mrs Terry)

RB and Big Gun can be used simultaneously (tur

pumps) per Mrs Terry

Pipe: 3" 04" mainline 1450 & Alum pipe for irrigation 2" laterals 240' only

pipe stacked in 3 locations on property

Terry, Leonard

AH R-58176 58177

P# - R - 7800 43944

Tie: PTS attached to field form

DIV. PTS: Numbers correspond to PTS not app. map)

Source unnamed stream #2 Ose: Water esect in barn (per Mr Terry)

Description: currently nothing & POD except

mangled metal pipe in creek bed. Mr

Terry states he plans to re-install

pipe and a 2 x 4' concrete bex in

the stream to direct water to the

barry. He states that there is underground pipe from PCD area to have. I diet see one end of a plastic pipe coming cet of the ground and the D'X4'

eencrete box. They are beated apprex. see' deanstream from mangled pipe in the creek bed. Location of mangled

pipe is surveyed as POD #1.

Application map shows this POD to be used for domestic purposes.

Source: unnamed stream #1 Use: demestic for @ small moho's; no lawn or garden seen Description; 24" CMP 13' deep (per Terry) is located several feet from centerline of creek. It is not corrently in the

stream bed directly

Sears 1/2 HP motor 1 200 pump 1/4" x 3/4"

Lift: 20' This ownerful has been sold to another owner.

a graff

DN PTS (continued)

#3 This was originally to be the div. pt. for the threel

By in-channel reservoire on stream #2. Reservoir

#3 was not constructed in-channel. It was

built north of its location on the application map.

This reservoir redoes receive & from stream #2

via a pipe from reservoir #1.

On the PTS I indicated POP #3 as the div. pt. for the second in-channel reservoirs. (The div. pt. is located on Pes. #2 nother than Pes #3.) There is no outlet conduit at this div. pt.

#4 Source: Cow creek
Use: irrigation of oats & pasture (A# 58177 and
Cert. # 20184)
Description: directly from creek

Unknown brand & size (ne nameplate) on pump & motor. Mr Terry states it polls approx. the same amount of electricity as a 7/2 HP pump that they have. Motor is trailer mounted and have gas pump. Inlet and outlet sizes are 23/4" x 21/2". Pump is CDD.

4

Terry, Leonard

A# R-58 176 58177

DIV PTS (continued)

#5

#6

Source: unnamed stream # 1
Use: domestic for O moho inc. 1/2 A lawn and garden
Description: water pumped directly from creek

Sears motor 1/2 HP @ 3450 RPM CDD pump 11/4" x 3/4" (same as POD #2)

Lift: 35'-40'

This div pt. was originally for Res #5 (see app. map). There was never the pond was never built at this location. The POD is just now being developed as a domestic source. The maha that is served was moved several hundred feet upstream because the Galesville Project road is being built where the trailer was once located. A trench w/ 1" PVC connects the POU w/ the POD. The trench is still open. 12' of 18" of CMP is a lying next to trailer, as is the pump described below.

Sears 1/2 HP motor @ 3450 RPM CDD pump 11/4" X 1"

Lift: 55'

Terry, Leonard A# R-58176 58177

PIV. PTS (continued)

#7 This is the diversion point for Res # 4.

There is no outlet conduit visible. There is a small amount of water in the stream channel resulting from seepage through the dam.

Pond #1 Div pt located @ east end of reservoir

This is labelled POD #8 on PTS.

Reservoir is in-channel. POD #8 is not

listed on app. map. There is a 6" 4 pipe
@ div. pt.

#9 This is div. pt. for Res #5 on PTS.

It is not listed on application map. Res #5

is an out-of-channel reservoir which
receives water from the spillway of Res #4

(unnamed stream #3 is actuall source).

Res #5 was not built on unnamed stream #4.

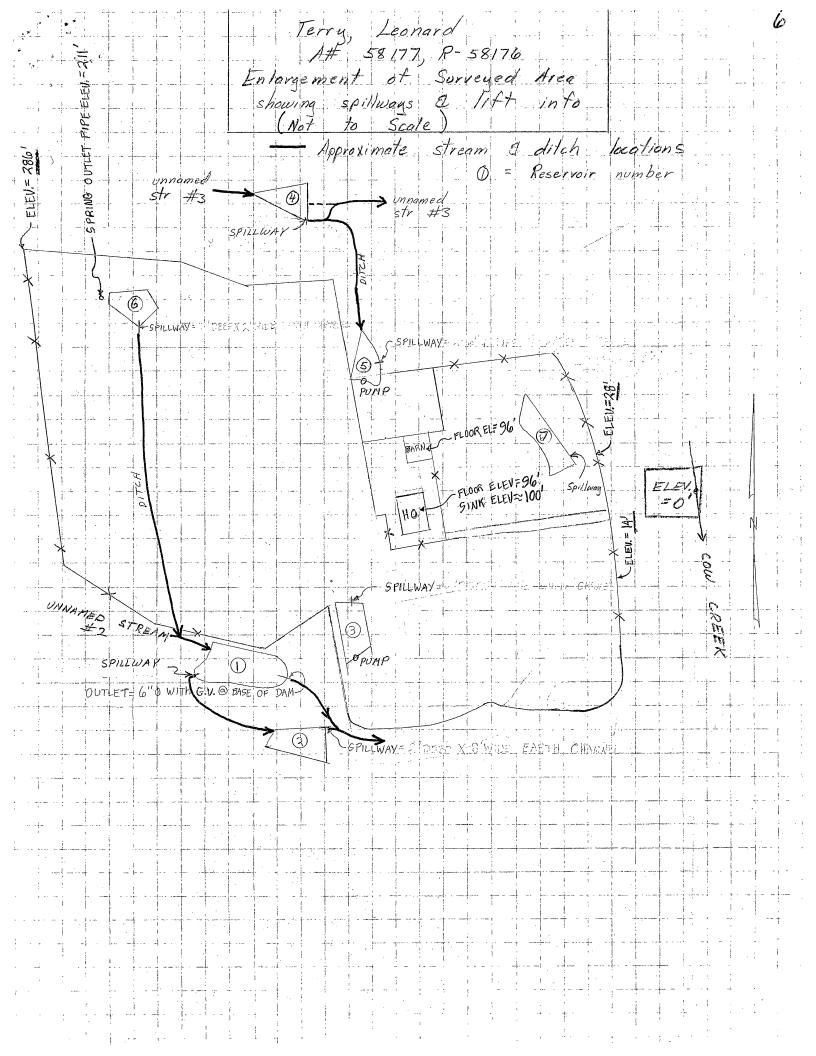
Pend #3 Div pt located @ east end of reservoir, #1.

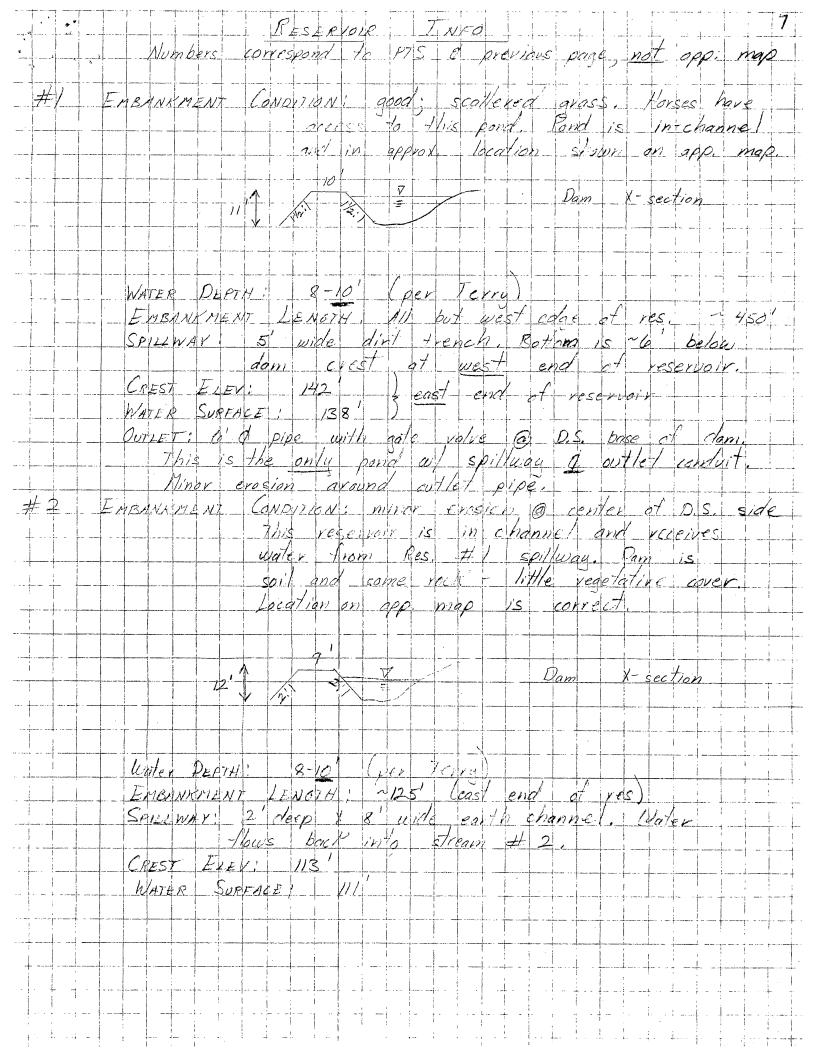
This pond receives run-off water and water
from Res #1. I did not designate a

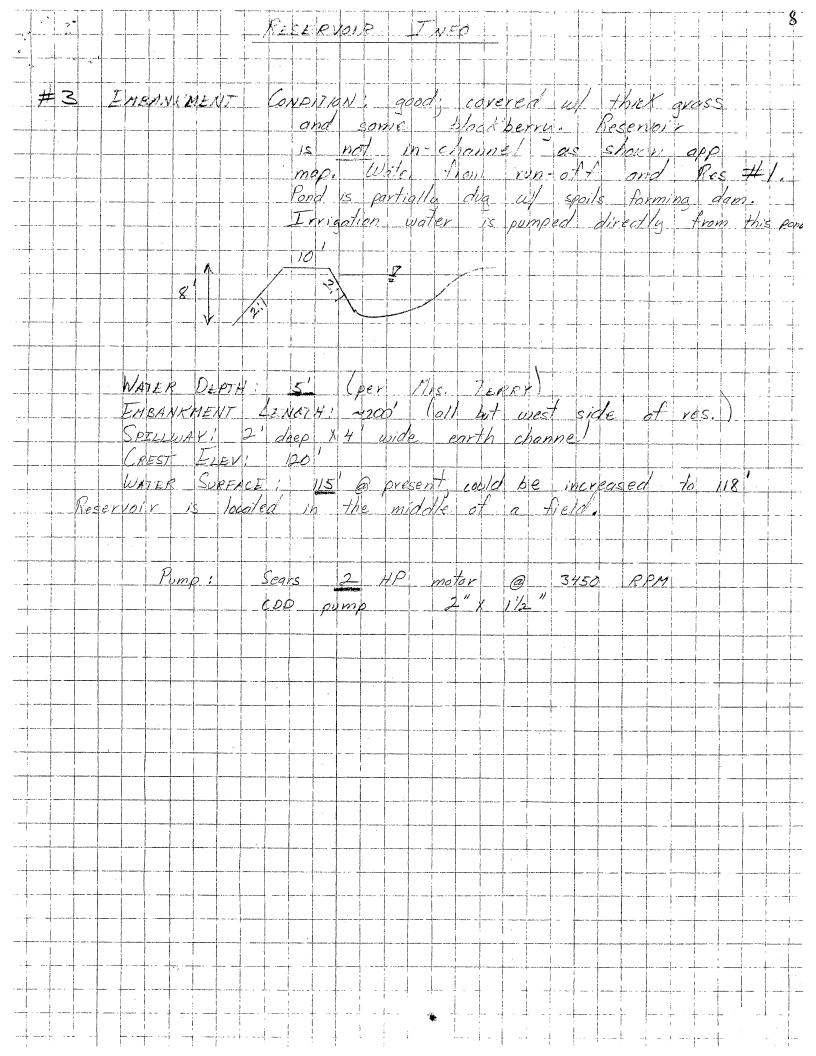
specific separate div. pt for this pond or
for ponds 6 and 7.)

The following pages give reservoir into.

Stock animals (cattle & 2 horses) have access to all ponds except #34.







Reservoir Into

4 EMBRAGINE NT CONDITION: Embandment is hose soil of med with no regulative cover; some leg and free etimps in Pill; seepage seen on D.S. side of embantiment but no erasion. Reservoir is in-channel Location as shown on app, may

28'

WATER DEPTH: 15' (per Mr. Jerin) EMBANKMENT LENGTH: 145' (east end of reservoir)
SPILLWAY: Bottom of earth channel is 3'h' below crest.

Spreading X section

Cow creek rough is os, from the emergencent. Water stored in Rec #4 can be routed back into stream #3 or into Res #5.

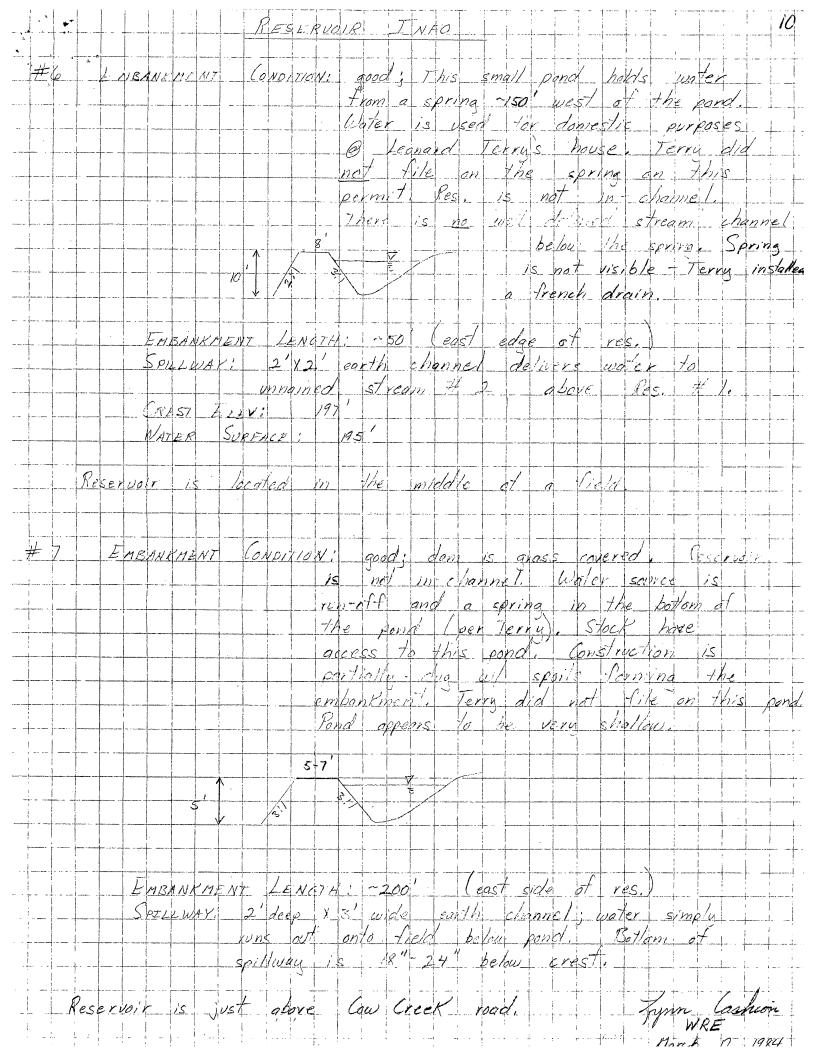
#5 ENBANKARAN CONDITION: Minor erosion on enclosistated face covered by water flowing from spillway, Imborinest heavily used by stock, Title more live cover. This pond is not in-channel and is partially excarated of spoils form be controlling to the shown or app. map

WATER DEPTH: 8' (per Mr. Form)
EMBANKNENT LENOTH: " (end edge of reserver) SPILLWAY: 2- 6" of pipes are 1' below crest

CREST ELEV: 97'

WATER SURFACE: 96' PUMP: Century motor 7/2 HP & 3600 & CDD pump 2/4" X 178" ID

Reservoir is located in the models of a field. Water is pumped directly from this recersor for irrigation. Source of water is run-off and flow from Res # 4.



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WATER RESOURCES DEPT BALEM. OREGON

Water Resources Department

JUSTICE BUILDING, Rm. 103, ROSEBURG, OREGON 97470 PHONE 440-4255

September 10, 1984

Mr. Leonard Terry 41A Cow Creek Road Azalea, Oregon 97410

Dear Sir:

On September 7, 1984, two of my assistants inspected a dam in the channel of an unnamed stream on your property in the SW 1/4 NW 1/4 section 28, Township 31S., Range 4W., W.M., and found it to be in excess of 40 feet tall. Earlier this year, a water rights examiner inspected a dam in that same location in connection with the final proof survey of your water right application number R-58176 and found it to be in excess of 25 feet tall. In Oregon, plans and specifications prepared by a licensed professional engineer must be submitted to the Water Resources Department for any dam in excess of 10 feet in height.

In your application, you indicated that the dam would be 10 feet tall and therefore, were not required to submit plans at that time. It is, however, necessary for me at this point to request that as-built plans and specifications for the dam be submitted by a registered engineer. (For your reference, I am enclosing copies of pertinent ORS and OAR).

In addition, storage at the site when the dam was 25 feet tall was estimated at 3.0 acre feet, 2.7 acre feet in excess of the amount requested for the site. (Were the dam to fill now, we would estimate between 15 and 20 AF capacity). Therefore, it is also necessary for you to file for a permit to cover the additional storage. I have enclosed water right application forms for your convenience.

If you have questions or need assistance with the applications, please drop in to the office or give me a call.

Very_truly_yours,

Gary L. Ball, Watermaster District #15

GLB:sl

Enclosures

xc: Barry Norris, Dam Safety Division Steve Applegate, Surveys and Certificates

DIVISION 20

APPROPRIATION AND USE OF SURFACE WATER

How to Fill Out an Application Form

690-20-005 (1) Each application must be prepared in ink or be typewritten.

(2) The applicant shall write into the blanks of the various items of the application for a permit to appropriate the public waters of the State of Oregon data as follows:

(a) Name and mailing address.

(b) The legal description of the property on which water is to be used must accompany the application. This may be copied from the deed, title insurance, or contract.

(c) Item 1. The source of water must be designated (river, stream, creek, spring, lake, etc.). If the stream has no official name, the source should be listed as "unnamed".

A spring is the point where water first emerges from the ground. Any water flowing away from this point constitutes a stream. Unless a catch basin or other means of diversion is to be constructed at the point the water first arises, the source should be designated as a stream or creek. If the appropriation is to be made directly from a spring, additional data will be required on forms to be furnished.

Applications covering appropriation from more than one source will be accepted if the sources are part of the same stream system, the water will be used in the same general location and the use is to be on a single contiguous property.

(d) Item 2. Each point of diversion at which water is to be taken from a stream or other source must be located accurately in reference to a public land survey corner in the same manner as shown on the map. If prints of a platted, recorded subdivision are submitted, the diversion point may be located in reference to a lot corner of the subdivision.

(e) Item 3. The place of use must be identified by its location within the public land survey. If within a platted, recorded subdivision, further identification by lot and block

should be given.

(f) Item 4. The amount of water for the appropriation shall be stated in gallons per minute or cubic feet per second. If more than one source is proposed, the amount from each must

(g) Item 5. If more than one use is contemplated, the amount for each use must be listed. If there is both multiple uses and multiple sources, the amount of water for each use from each source must be shown to agree with Item 4. Domestic use generally has been accepted to mean household use of water. If the intent is to irrigate lawn and garden not exceeding one-half acre through the household system, this use can be included with "Domestic Use" if specifically stated on the application.

(h) Items 6, 7, 8, and 9 must be completed.

(3) The application must be signed by the applicant or applicants listed on the first page.

Stat. Auth.: ORS Ch. 536 & 543 Hist: WRD 3, f. & cf. 2-18-77

690-20-010 ORS 537.140 requires that each application for a permit shall be accompanied by a map of the proposed development. A map is intended to show certain features of a development in greater detail than the application and becomes an important part of the permit. It should be prepared with care to insure reasonable accuracy. Each map is made part of the record, must be permanent quality, and drawn with sufficient clarity to be easily reproduced.

If you are not experienced in the preparation of maps, it is

advisable to obtain technical assistance.

Maps measuring 11" x 17" or less may be prepared on a good quality paper. Larger maps must be drawn on tracing linen, tracing veilum, or mylar. All maps must be drawn to a standard, even scale of not less than 4" = 1 mile. Small area maps are more easily and clearly drawn to a larger scale such as i'' = 400 feet.

Four prints of a platted and recorded subdivision may be submitted as the application map if all of the required information is clearly shown on each print. The location of the diversion point may be given with reference to a lot or block

corner of the subdivision.

Four permanent quality prints of other maps such as deed description survey maps and county assessor maps may also be used if all the required information is clearly shown on each print. A single print of these may be used only if it is reproduced as a transparency such as a sepia print or mylar film.

Each map must show clearly such of the following requirements as shall apply to the proposed appropriation:

(1) The location of each point of diversion in reference to a recognized public land survey corner. The locations may be shown by distance and bearing or by coordinates (distance north or south and distance east or west from the corner).

(2) The location and direction of flow of the stream or

streams from which the appropriation is to be made.

(3) The location of all dams and regulating or control works.

- (4) The location of main canals, ditches, pipe lines, or flumes.
- (5) The location of the place where water is to be used. If for irrigation, the area to be irrigated in each 1/4 - 1/4 of a section must be shaded and the number of acres in each 1/4 -1/4 indicated.
- (6) The scale to which the map is drawn, the section number, township and range, and a north directional symbol.

Stat. Auth.: ORS Ch. 536 & 543 Hist: WRD 3, f. & cf. 2-18-77

Thirty Day Period

690-20-015 No application will be approved and permit issued until expiration of at least 30 days from date of filing in Water Resources Department except in cases when special circumstances justify earlier action.

Stat. Auth.: ORS Ch. 536 & 543 Hist: WRD 3, f. & ef. 2-18-77

Notice Required

690-20-020 Upon the commencement of construction work, notice must be sent to the Water Resources Director using the form attached to the permit. Similar notice must be sent to the Water Resources Director when the construction work has been completed and also when the water has been applied to beneficial use.

Stat. Auth.: ORS Ch. 536 & 543 Hist: WRD 3, f. & cf. 2-18-77

Deme

Generally

690-20-025 All maps, plans, and specifications for the construction, enlargement, repair, or alteration of all dams which are, or will be, 10 feet or more in height, or will impound 3,000,000 gallons or more, must be prepared by a professional engineer licensed to practice in the State of Oregon.

An outlet conduit must be installed in any instream

reservoir to permit drainage of the reservoir and for passage of flow to downstream prior rights if necessary. The conduit is normally asphalt dipped corrugated metal pipe with watertight joints. The conduit valve should be installed at the upstream end and should be an Armoo 101 C or equivalent.

Requirements for preparation of plans and specifications for construction of dams 10 feet or more in height or impounding more than 3,000,000 gallons of water can be found in rules

690-20-030, 690-20-035, and 690-20-040.

The following information is presented for your assistance in constructing small earthfill dams less than 10 feet in height or impounding less than 3,000,000 gallons (9.2 acre feet) (see Exhibit 1):

- (1) The crest width of the dam should be not less than 8 feet.
 - (2) The upstream slope should be no steeper than 3:1.
 - (3) The downstream slope should be no steeper than 2:1.
- (4) The spillway channel should be constructed around the dam, not over the top. The spillway is normally excavated in natural material and, if necessary, lined to prevent erosion. The spillway should be large enough to pass the 50 year flood flow without overtopping the dam. Assistance is available from this office in sizing the spillway. Flow passing through the spillway should be returned to the creek channel at a sufficient distance downstream to prevent erosion of the embankment.

(5) All brush, stumps, roots, and organic matter should be cleared from the area to be occupied by the dam. All such material should also be removed from the borrow area.

- (6) A minimum of two cutoff collars should be constructed. These cutoff collars are normally constructed of concrete with a minimum thickness of 6 inches and should extend from the outside of the conduit a minimum of 24 inches in all directions. Prefabricated asphalt dipped metal cutoff collars are acceptable providing a watertight joint is obtained between conduit and collar.
- (7) Embankment material should be spread longitudinally along the dam axis in layers not exceeding 8 inches in thickness and adequately compacted with sheepfoot roller or other similar equipment.

Stat. Auth.: ORS Ch. 536 & 543 Hist: WRD 3, f. & ef. 2-18-77

Preparation of the Application

690-20-030 All entries must be made with dark ink or be

- (1) Item 2. If the pond or reservoir is not in the channel of a stream, a description of the method of filling, including a description of any diversion structure planned must be included.
- (2) Item 7. If more than one use is planned, the quantity to be stored for each use must be stated.
- (3) Item 10. A spillway must be provided for reservoirs not in a stream channel as well as for those within a stream channel.
- (4) Items 1, 3, 4, 5, 6, 8, 9, 10, 11, and 12 must be completed even though part or all of the information requested may appear on a supplemental diagram or dam plans.

The completed application, maps, and fees should be mailed to Water Rights Division, Water Resources Department, Salem, Oregon 97310.

Stat. Auth.: ORS Ch. 536 & 543 Hist: WRD 3, f. & ef. 2-18-77

Engineering Design Requirements

690-20-035 Registered professional engineers commissioned to prepare plans and specifications for the construction of dams who are not familiar with our minimum design criteria,

should submit preliminary data to the Water Resources Department and obtain from the Water Resources Department the minimum requirements on which to base the design of the dams:

(1) Plans. Plans for dams submitted for approval must accurately portray the work to be accomplished and be of sufficient detail to adequately define all features of the project. Plans must be submitted on good quality tracing material and must be neatly and accurately drawn to a scale sufficiently large, with an adequate number of views, for the drawing to be readily interpreted.

Several sheets may be used to eliminate the necessity of large bulky drawings. No map or plan should be larger than 28 x 40 inches if conveniently possible. The following information

will be required:

- (a) A contour map of the reservoir site which will show the location of the dam by section, township and range, and the name and location of the stream flowing through the reservoir. Government survey lines must be indicated on this map. Area and capacity curves and/or tables of the proposed reservoir must be shown.
- (b) A map of the drainage basin showing the location of the dam and reservoir and the streams within the drainage area. This map may be prepared from topographical maps of the U.S. Geological Survey or U.S. Forestry Department where available and it must include: the number of square miles of drainage area; a brief description of the area; the percentage of bare and timbered lands; and general characteristics of the watershed, whether precipitous, rolling, or comparatively flat.

(c) A topographic map of the damsite with contour intervals of not to exceed 5 feet. A plan of the dam should be superimposed on this map showing the location of spillways,

outlet conduits, and cutoff walls.

(d) A profile of the damsite taken on the axis of the dam and a profile of the spillway along its axis. The profile should also show the location of the outlet conduit and spillway. A log showing the classification of materials encountered below the surface as shown by test pits or borings should be included.

(e) A cross section of the dam at maximum section

showing complete details and dimensions.

(f) Plans showing sections of outlet conduit, control works, and spillways. These sections should be in sufficient number and detail to make definite all features of the structure.

All maps and plans must be drawn to a scale which will clearly show the dimensions and character of construction.

(2) Specifications. All plans for dams must be accompanied by specifications.

The specifications shall describe in detail the methods to be followed in performing each class of work and shall set forth the requirements for the various types of material to be used in the permanent construction.

The specifications must contain a provision for supervision by the engineer during construction and for inspection by the Director of the Water Resources Department at any time

during the construction period.

The specifications must also contain aprovision to the effect that plans or specifications shall not be altered or changed without the written approval of the Director of the Water Resources Department.

Stat. Auth.: ORS Ch. 536 & 543 Hist: WRD 3, f. & ef. 2-18-77

General Requirements

690-20-040 (1) Water Resources Director may require any information or data in addition to that outlined herein which the Water Resources Director may believe necessary for determining the safety of the proposed structure.

(2) Whenever possible, precipitation or rainfall and runoff

records shall be submitted.

ties of the law for changing or interfering with headgates, until the requirements of the director as to such measuring devices are complied with.

540.340 Reservoir and diversion dam; suitable outlet; effect of noncompliance. (1) Whenever it may be necessary for the protection of other water users, the Water Resources Director shall require every owner or manager of a reservoir or diversion dam, located across or upon the bed of a natural stream, to construct and maintain a suitable outlet in the reservoir or diversion dam which will allow the free passage of the natural flow of the stream. The director shall determine what constitutes a suitable outlet.

(2) If any owner or manager of a reservoir or diversion dam refuses or neglects to construct or put in such outlet in the reservoir or diversion dam after 10 days' notice by the director, the director may close the ditch carrying water from the reservoir or diversion dam and it shall not be opened or any water diverted from the reservoir or diversion dam, under the penalties prescribed by law for the opening of headgates lawfully closed, until the requirements of the director regarding such outlet have been complied with.

540.350 Dams, dikes and other hydraulic works; when showing for power generation use to be made; examination and approval by director; approval not to relieve owners of responsibility; inspections; modification of works; hearing. (1) No person, firm or private or municipal corporation shall construct any dam, dike, or other hydraulic structure or works, the failure of which the Water Resources Director finds would result in damage to life or property, unless the director has made an examination of the site and of the plans and specifications and other features involved in the construction of such works, and has approved them in writing.

(2) When a person, firm or private or municipal corporation seeks the written approval of the Water Resources Director after June 22, 1981, of the site, plans, specifications and features for a dam more than 25 feet high at a site where there is an average annual flow exceeding two cubic feet a second, that party must demonstrate that the dam includes measures that make it readily adaptable to power generation in a manner meeting statutory requirements for the safe passage of fish. These measures shall include the installation of a pressure conduit, penstock, drain or similar water diversion system at the time the dam is built.

- (3) A person, firm or private or municipal corporation seeking approval for a dam described in subsection (2) of this section need not make the showing required by that subsection if that party demonstrates to the director's satisfaction that:
- (a) It is not likely the installation of hydroelectric generating facilities at the proposed site would be feasible anytime during the life of the proposed dam; or
- (b) It would be more feasible to install hydroelectric facilities after construction of the proposed dam.
- (4) The director's approval of the site, plans and specifications, or other features involved in the construction, maintenance and operation of any hydraulic works whatsoever shall not relieve the owners of their legal responsibilities.
- (5) The director may make inspections of any hydraulic structure, the site thereof, and of the plans and specifications, and any other features involved in the construction, maintenance and operation of the works. If, as a result of the inspections, the director considers any modifications necessary to insure the safety of the works with reference to possible damage to life or property, the director shall notify the legal owners by registered mail, stating why the works are unsafe. The notice shall set forth the modifications necessary to insure the safety of the works in so far as it affects possible damage to life or property. The notice also shall set a hearing at such time and place as will give the owners a reasonable time to prepare therefor. [Amended by 1981 c.210 \$1]

540.360 Order to modify. After the hearing the Water Resources Director may issue a written order to the owners to make such modifications as the director considers necessary to insure the safety of the works with reference to possible damage to life or property and shall fix the time within which work shall begin in good faith and the time for completion. The owners, upon receipt of the order, shall make the modifications ordered within the time limit prescribed or shall initiate an appeal as above provided. [Amended by 1975 c.581 §26a; 1981 c.210 §2]

540.370 Enforcing compliance with order or decree. (1) If the owners fail to make the modifications within the time limits set by the Water Resources Director, or to institute their appeal or to comply with the decree of the appellate court in case an appeal is taken, the director shall issue an order in writing to the owners directing that the gates be kept open, or an opening made in the dam if necessary, or that

the structure shall not be used for the storage, restraint or conveyance of water until the modifications have been made.

- (2) No owner shall refuse to comply with the orders of the director or the decree of an appellate court.
- (3) In case of noncompliance, the director shall direct the watermaster or other authorized assistant to carry out the orders, or he may file a copy of his order with the Attorney General or with the district attorney of the county within which the works are located. The Attorney General or district attorney shall bring proceedings in the name of the state, in the circuit court of the county within which the works or any part thereof are situated, to abate the offending works. The court, after a full hearing on the matter, may declare the works a nuisance and order their removal, or order any repairs or alterations, and may enforce its orders in the manner provided by law.

540.380 Reports of consultants; payment. The Water Resources Director may accept the reports of consulting engineers, geologists or other specialists whom the owners of the works in question may have employed. But if, for any reason, he deems the reports insufficient, he may employ consulting engineers, geologists or other specialists outside of his office to make special examinations and inspections and to prepare reports thereon for his guidance. The cost of such special examinations, inspections and reports shall be paid by the director from any funds at his disposal, or it may be divided by mutual agreement between the state and the owners.

540.390 Inspection by director upon application by resident, landowner or on own motion; expenses; deposit by applicant; payment by owner of works; lien. Should any person residing on or owning land in the neighborhood of any dam, dike or other hydraulic structure after completion, or in course of construction, apply to the Water Resources Director in writing desiring an inspection of the works, the director may order an inspection, or he may make such order on his own motion. Before doing so he may require the applicant for such inspection to make a deposit of a sum of money sufficient to pay the expenses of an inspection. In case the application appears to him not to have been justified he may cause the whole or part of the expenses to be paid out of the deposit. In case the application appears to the director to have been justified, he may require the owner of the works to pay the whole or any part of the expenses of the inspection, and it

shall constitute a valid lien against the works, which may be enforced in the same manner as provided for the enforcement of mechanics' liens.

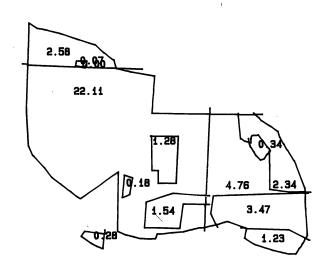
540.400 Law not applicable to certain works. ORS 540.350 to 540.390 shall not apply to:

- (1) Any dam less than 10 feet in height or impounding less than 3,000,000 gallons of water.
 - (2) Splash dams used for driving logs.
- (3) Farm dikes constructed by individuals on their own property.
- (4) Ditches carrying less than five cubic feet of water per second.

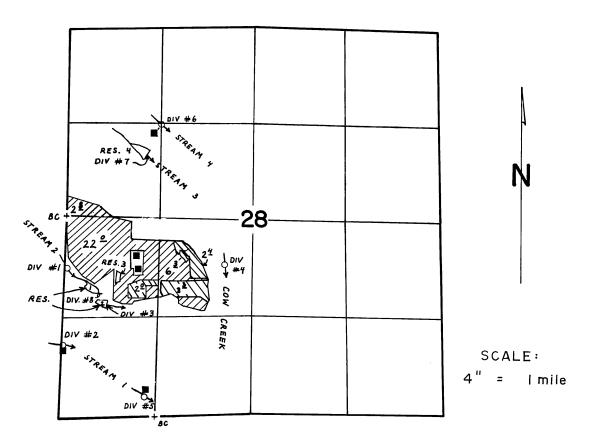
540.410 Use of watercourse to deliver reservoir water; notice to watermaster; adjustment of headgates; expenses; liabilifor, and collection of, payment. Whenever the owner, manager or lessee of a reservoir constructed under the provisions of the Water Rights Act (as defined in ORS 537.010) desires to use the bed of a stream, or other watercourse, to carry stored or impounded water from the reservoir to the consumer thereof, he shall, in writing, notify the watermaster of the district in which the stored or impounded water from the reservoir is to be used, giving the date when it is proposed to discharge water from the reservoir, its volume, and the names of all persons and ditches entitled to its use. The watermaster shall then close, or so adjust the headgates of all ditches from the stream or watercourse, not entitled to the use of such stored water, as will enable those having the right to secure the volume to which they are entitled. The watermaster shall keep a true and just account of the time spent by him in the discharge of his duties as defined in this section, and the Water Resources Director shall present a bill of one-half the expense so incurred to the reservoir owner, manager or lessee. If the owner, manager or lessee neglects for 30 days, after presentation of the bill of costs, to pay it, the costs shall be made a charge upon the reservoir and the state shall have a preference lien therefor. Upon notice from the director, the Attorney General shall foreclose the lien and collect the amount due, as provided in this section, in the same manner as other liens on real property are foreclosed. [Amended by 1955 c.39 §1; 1961 c.636 §7]

540.420 Maintenance and operation of jointly owned ditches; performance by coowner; recovery from one in default. In all cases where ditches are owned by two or more persons and one or more of such persons fails or neglects to do a proportionate share of the work





T.31S., R.4W., W.M.



PT. LOCATION:

720'S and 10'W 110' W 1790'5

1250'5 500' E

2160'E 770'S

970'E 2550'S

1200'N 1370'E 750'N 1150'E

1060'5 450'E

210'S 910'E

ALL FROM W. 1/4 COR.

SEC. 28. o f

PORTIONS OF CERT. 9609,

NEW IRRIGATION

FINAL PROOF SURVEY

UNDER

R-58176

R 7800

Application No. 58177... Permit No. 43944....

IN NAME OF

LEONARD TERRY

Surveyed FEB 28,2919.84, by L. E. Cashion. MAR. 1,1984 JUNE 9,1990 by BS James

1 C 1981 T.31S., R.4W., only it Resembling 28 DIV #2 SCALE: = | I mile 10'W Fout per claim not incise at time of in spection.

10'W FOO'E

10'F PT. LOCATION: DIV. 720' S 1790'5 500' E 1250'5 2160'E 770'S NEW IRRIGATION 970'E 1200'N 1370'E 1150'E 750'N out set shown on FPS 1060'5 910'E 210'5 FINAL PROOF SURVEY COR. 1/4 ALL FROM W. **UNDER** SEC. of · 28. R-58176 R 7800 Application No. 58177 Permit No. 43944 IN NAME OF LEONARD TERRY Surveyed FEB 28,2919.84, by J. E. Conhism. MAR. 1,1984 JUNE 9,1990 by BS James

thon parmitted - 1984 to Soul Jany was 1. Reservoirs Jorgan 2-0 vonées hip? applications for reser WRIS does not showard new apps for unnamed stream 1 - 2 Hotel Some for RES 1 & 2 UNNAMED STREAM 1- Domestic 2 Domestic Expanded Family DIV 6 - STREAM 4- 1 Domestic All Reservoirs stores more need to apply to anlarge
read to some i'p".