

SURFACE WATER REGISTRATION CHECKLIST

(received after July 18, 1990)

CHECK BASIN MAP Del NAME Unpqua # 16 UNADJUDICATED AREA ? YES
RECEIPT # 95682 S W R NUMBER 339
CHECK ENCLOSURES Del PRELIMINARY DATA BASE ENTRY Del
ACKNOWLEDGEMENT LETTER Del ENTER ON STREAM INDEX _____
CHECK QUADRANGLE MAP _____ CHECK GLO PLATS _____
WATERMASTER CHECKLIST _____ PUBLIC NOTICE PUBLICATION SC 90

FORM REVIEW

_____ blanks filled in
_____ signed
_____ date received stamped

MAP REVIEW

source and trib
 diversion point location
 conveyances (pipes, ditch, etc.)
 place of use _____ House?
 scale
 township, range, section
 north arrow
 CWRE stamp
 disclaimer
_____ date survey was performed
 P.O.B. of survey
 dimensions and capacity of diversion system
 "beneficial use" type title
 "permanent-quality" paper

Del WATER RIGHT RECORD CHECK _____ FIELD INSPECTION _____
FINAL FILE REVIEW _____ FINAL DATA BASE ENTRY _____
ENTER ON PLAT CARDS _____

December 7, 1993

HARVEY WILCOX
% STUNTZNER ENGINEERING
PO BOX 118
COOS BAY OR 97420

RE: SWR-339

Dear Mr Wilcox,

This will acknowledge the receipt of map to support the pre-1909 vested water right claim in the name of IRENE M BLACK you returned with corrections and completions. I have added the map to the file. Thank you for your attention to this matter. If you have any questions, please give me a call.

Sincerely,



Don Knauer
Adjudication Specialist

J:\W\S\C\3\SWR-0339.004



October 26, 1993

HARVEY WILCOX
3190 N LAKE ROAD
LAKESIDE OR 97449

RE: File# SWR-339

DEAR HARVEY WILCOX,

The Water Resources Department (WRD) received a little over 500 surface water registration statements in December, 1992. All of the files have been set up and receipts for the fees have been sent. The next step is to insure the maps received in support of the claims are acceptable based on Oregon Revised Statutes (ORS) and Oregon Administrative Rules (OAR).

I am returning the map you prepared for Irene M. Black. You will find the item which requires completion or correction shown below. I have the description followed by the ORS or OAR site and paraphrased statute or rule.

place of use (¼ ¼)

ORS 539.240 (2) (d) (B) "The location of place of use by quarter-quarter section..." You must the location of the home.

You must return the map before the claim can be processed. If you cannot have the map to the WRD within 60 days, please inform me as to when it can be expected. Please mark all correspondence with the file number.

As always, if you have any questions, please give me a call.

Sincerely,



Don Knauer
Adjudication Specialist

Enclosures



March 17, 1993

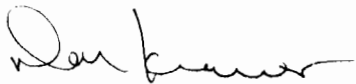
IRENE M BLACK
27277 LOWER SMITH RIVER ROAD
REEDSPORT OR 97467

RE: SWR-339

Dear Ms Black

This will acknowledge the receipt of your map to support your surface water registration statement prepared by Harvey Wilcox, CWRE. The map and data will be added to your file for future review. If you have any questions, please give me a call.

Sincerely,



Don Knauer
Adjudication Specialist

M:\W\S\C\SWR-0339.003



March 10, 1993

HARVEY WILCOX
PO BOX 118
COOS BAY OR 97420

RE: Surface Water Registration Map

Dear MR WILCOX,

IRENE BLACK has indicated to the Oregon Water Resources Department (WRD) that you have been hired to prepare the claim of beneficial use map for their Surface Water Registration Statement. Would you please inform me of your anticipated schedule of map preparation and submission to the WRD.

Please mark all correspondence related to this claim with the file number SWR-339.

Sincerely,



Don Knauer
Adjudication Specialist

C:\WP51\SWR\CLAIMANT\SWR-0339.002



March 10, 1993

IRENE M BLACK
27277 LOWER SMITH RIVER ROAD
REEDSPORT OR 97467

Dear MS BLACK,

This will acknowledge that your Surface Water Registration Statement in the name of IRENE M BLACK has been received by our office. The fees in the amount of \$230.00 have been received and our receipt #95682 is enclosed. Your registration statement has been numbered SWR-339.

Our office will review your form and map in the near future. If necessary we will schedule a meeting with you that will include a site inspection. If there are problems with your form we are usually able to take care of them during our visit. We will be able to answer any questions you might have about the adjudication process at that time.

Please feel free to contact this office if you have any questions.

Sincerely,



Don Knauer
Adjudication Specialist

Enclosure



**STATE OF OREGON
WATER RESOURCES DEPARTMENT**

RECEIPT # **95682**

3850 PORTLAND ROAD NE
SALEM, OR 97310
378-8455/378-8130 (FAX)

RECEIVED FROM: Shene M Black
BY: _____

APPLICATION	
PERMIT	
TRANSFER	

CASH: CHECK: # X 96-104 OTHER: (IDENTIFY)

TOTAL REC'D \$ 230.00

01-00-0 WRD MISC CASH ACCT

842.010	ADJUDICATIONS	\$ <u>230.00</u>
831.087	PUBLICATIONS/MAPS	\$
830.650	PARKING FEES Name/month	\$
_____	OTHER: (IDENTIFY)	\$

REDUCTION OF EXPENSE

CASH ACCT. _____

COST CENTER AND OBJECT CLASS _____

VOUCHER # _____

\$ _____

03-00-0 WRD OPERATING ACCT

MISCELLANEOUS:

840.001	COPY FEES	\$
850.200	RESEARCH FEES	\$
880.109	MISC REVENUE: (IDENTIFY)	\$
520.000	OTHER (P-6): (IDENTIFY)	\$

WATER RIGHTS:

842.001	SURFACE WATER	\$	842.002	\$
842.003	GROUND WATER	\$	842.004	\$
842.005	TRANSFER	\$	842.006	\$

WELL CONSTRUCTION

842.022	WELL DRILL CONSTRUCTOR	\$	842.023	\$
842.016	WELL DRILL OPERATOR	\$	842.019	\$
	LANDOWNER'S PERMIT		842.024	\$

06-00-0 WELL CONST START FEE

842.013	WELL CONST START FEE	\$	CARD #	
	MONITORING WELLS	\$	CARD #	

45-00-0 LOTTERY PROCEEDS

864.000	LOTTERY PROCEEDS	\$
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07-00-0 HYDRO ACTIVITY

LIC NUMBER _____

842.011	POWER LICENSE FEE(FW/WRD)	\$
842.115	HYDRO LICENSE FEE(FW/WRD)	\$

HYDRO APPLICATION _____

\$ _____

RECEIPT # **95682**

DATED: 12-30-92

BY: R Smith

RECEIVED

MAR 17 1993

WATER RESOURCES DEPT
SALEM, OREGON

CLAIM OF BENEFICIAL USE AND SITE REPORT FOR PRE 1909 VESTED
WATER RIGHTS.

INFORMATION:

THE PERMITEE IS IRENE BLACK. I TALKED TO IRENE AND HER SON
GEORGE AT THE SITE. GEORGE SHOWED ME THE DOMESTIC WATER
SYSTEM AND THE AREAS THAT THE STOCK WATER FROM THE CREEKS.
ADDRESS: IRENE BLACK
27277 LOWER SMITH RIVER ROAD
REEDSPORT, OREGON 97467

SOURCE:

THE SOURCE FOR THE DOMESTIC WATER IS AN UNNAMED STREAM WHICH
IS A TRIBUTARY OF LITTLE BUCK CREEK. THE SOURCE FOR THE STOCK
WATERING IS LITTLE BUCK CREEK, BUCK CREEK AND SMITH RIVER.

DIVERSION POINT:

THE DIVERSION POINT FOR THE DOMESTIC USE IS TWO VERY SMALL
CONCRETE DAMS IN AN UNNAMED STREAM. THE DAMS ARE 1' TALL AND
2' WIDE. THERE IS A 1" PLASTIC PIPE IN BOTH DAMS THAT DIVERTS
THE WATER TO ONE 50 GALLON SETTLEMENT TANK. THE STOCK
WATERING IS INSTREAM.

MOTOR/PUMP:

THIS IS A GRAVITY SYSTEM.

PIPE

THERE IS 1270' OF 1" PLASTIC PIPE FROM THE POD TO THE STORAGE
TANK. THERE IS 950' OF 1 1/4" PLASTIC PIPE FROM THE STORAGE
TANK TO THE PLACE OF USE AT THE HOUSE.

HEADS

IRRIGATION OF LAWN AND GARDEN IS ACCOMPLISHED WITH A STANDARD
5/8" GARDEN HOSE AND WAVE SPINKLER.

USES

THE WATER IS BEING USED FOR DOMESTIC HOUSEHOLD USE INCLUDING
IRRIGATION OF LESS THAN 1/2 ACRE OF LAWN AND GARDEN. THE
INSTREAM USE IS FOR STOCK WATERING.

LIFT

THE POD IS 25' ABOVE THE SETTLEMENT TANK AND THE SETTLEMENT
TANK IS 103' ABOVE THE HOUSE.

RECEIVED

MAR 17 1993

WATER RESOURCES DEPT
SALEM, OREGON

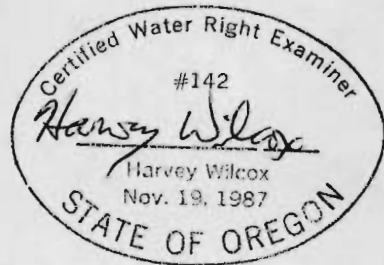
CALCULATIONS

I MEASURED 35 PSI AT THE HOUSE. IGNORING FRICTION THE SYSTEM SHOULD HAVE ABOUT 44 PSI. THERE IS PROBABLY A LEAK IN THE LINE SOMEWHERE. I CALCULATED THE SYSTEM CAPACITY USING BOTH. SEE THE ATTACHED CALCULATION SHEET AND NOMAGRAPH. THE CAPACITY AT THE MEASURED 35 PSI IS .043 CFS. THE CAPACITY AT THE CALCULATED 44 PSI IS .048 CFS. THERE ARE PRESENTLY 70 CATTLE ON THE RANCH AND GEORGE SAID THIS IS THE MAXIMUM THEY CARRY. AT 15 GALLONS PER DAY THIS GIVES 1050 GPD INSTREAM STOCK WATERING.

SURVEY TIE

I TIED THE POD, THE HOUSE, THE SETTLEMENT TANK AND THE 1/4 CORNER BETWEEN SECTIONS 31 & 32 WITH A THEODOLITE AND EDM. I USED A COMPASS BEARING WITH DECLINATION OF 18DEG EAST AS A BASIS OF BEARINGS. THE POD BEARS S8DEG 25'W 520' FROM THE 1/4 CORNER. THE 1/4 CORNER IS A BRASS CAP.

THE PRE 1909 VESTED WATER RIGHTS SURVEY AND INSPECTION OF THE USE AS FOUND TO BE COMPLETED UNDER THE CONDITIONS AND TERMS OF PRE 1909 WATER RIGHTS WAS COMPLETED BY ME ON JAN. 6 1993. THE FACTS CONTAINED ON THIS REPORT ARE CORRECT TO THE BEST OF MY KNOWLEDGE.



I, IRENE BLACK, AGREE TO THE FINDINGS OF THE CWRE AND DO SUBMIT THIS SITE REPORT AND MAP AS MY CLAIM OF BENEFICIAL USE OF THE WATER AS PROVIDED UNDER THE TERMS AND CONDITIONS OF PRE 1909 VESTED WATER RIGHTS.

SIGNATURE Irene M Black Mar 16/93

RECEIVED

MAR 17 1993

WATER RESOURCES DEPT
SALEM, OREGON

Calculations

Domestic -

950' of 1 1/4" pipe

35 psi measured

44 psi calculated

3.7 psi per 100' of pipe

4.6 psi per 100' of pipe

minimum system capacity = 0.043 CFS
maximum " " " = 0.048 CFS

see attached nomograph

Stock Watering

There are presently 70 cattle on the ranch and George said this is the maximum they carry.

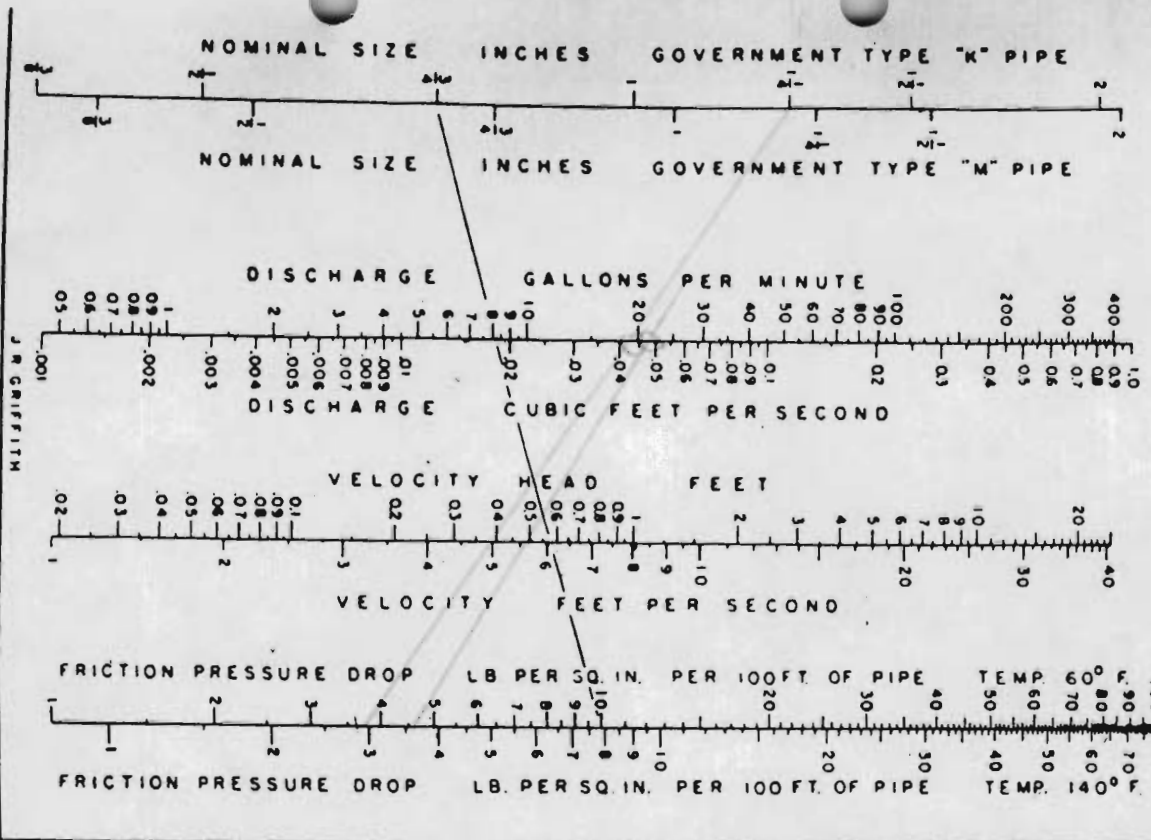
70 cattle x 15 GPD = 1050 GPD

MAR 17 1993

RECEIVED

**FLOW OF WATER IN
COPPER & BRASS PIPES**

WATER RESOURCES DEPT
SALEM OREG



Flow of Water in Small Pipes

3/8 to 2-in. diam.

There have been numerous nomographic charts published for the flow of water in pipes, including four of my own. However, I have not previously seen one applicable to pipes in the smaller size ranges.

The accompanying chart is based on tabular data published by the Bridgeport Brass Co.* Being applicable to the flow of water at temperatures both 60 deg. F. and 140 deg. F., it should be convenient in the design of building and boiler installations. It would be applicable to pipes of other material of corresponding smoothness with care being taken for corrosive waters.

Government types "K" and "M" have been included, the difference being in the wall thickness and internal diameter. The following table indicates the difference for the included sizes:

Nominal Size	Outside Dia., In.	Wall Thickness, In. Type "K"	Type "M"
3/4	.500	.049	.025
1/2	.625	.049	.028
3/4	.875	.065	.032
1	1.125	.065	.035
1 1/4	1.375	.065	.042
1 1/2	1.625	.072	.049
2	2.125	.083	.058

A single straight line intersecting all scales is necessary for a solution of this chart. Any two known, or assumed, values will determine the direction of the solution line. A solution line has been drawn for the following problem:

Required to determine the discharge of water at 60 deg. F. in 3/4-in. Government type "K" copper tube for a total pressure

drop of 20 lb. per sq. in. for a 200-ft. run of pipe.

$$\text{Pressure drop} = \frac{20}{2} = 10 \text{ lb. per sq. in. per 100 ft.}$$

A line has been drawn between the pipe size and this pressure drop. The following information is then obtained from the other scales:

- Discharge = 8.2 gal. per min.
- Discharge = 0.018 cu. ft. per sec.
- Velocity = 6.1 ft. per sec.
- Velocity head = 0.57 ft.
- Pressure loss for same pipe but water at 140 deg. F. would be 7.9 lb. per sq. in. per 100 ft. of pipe.

From the tables, Discharge = 8.2 gal. per min.
Discharge = $\frac{8.2}{44.8} = 0.183$ cu. ft. per sec.

Area of 3/4-in. type "K" pipe

$$A = \frac{3.1416(0.875 - 2(0.065))^2}{4} = 0.436 \text{ sq. in.}$$

$$\text{Area} = \frac{0.436}{144} = 0.00303 \text{ sq. ft.}$$

$$\text{Vel.} = \frac{\text{Discharge}}{\text{Area}} = \frac{0.0183}{0.00303} = 6.04 \text{ sec. ft.}$$

$$\text{Velocity head} = \frac{V^2}{2g} = \frac{6.04^2}{64.4} = 0.567$$

*Water Pipe Sizes, by Walter S. Timmala, Bridgeport Brass Co., Bridgeport, Conn.

NOTES FOR 1967 EDITION

Not many references pertaining to small diameter tubing or pipe are available at present, particularly as regards head loss in fittings or bends. Manufact-

urers data must be consulted for these situations. It should be noted that this chart presents flow data only for straight sections of the described pipe. TJM



TELEPHONE (503) 267-2872
FAX (503) 267-0588

705 SO. 4TH, P.O. BOX 118
COOS BAY, OREGON 97420

MEMORANDUM

TO: Don Knauer

DATE: 11/29/93

FROM: Harvey Wilcox

RE: Irene Black WR's SWR 339
Joe Goularte WR's SWR 365

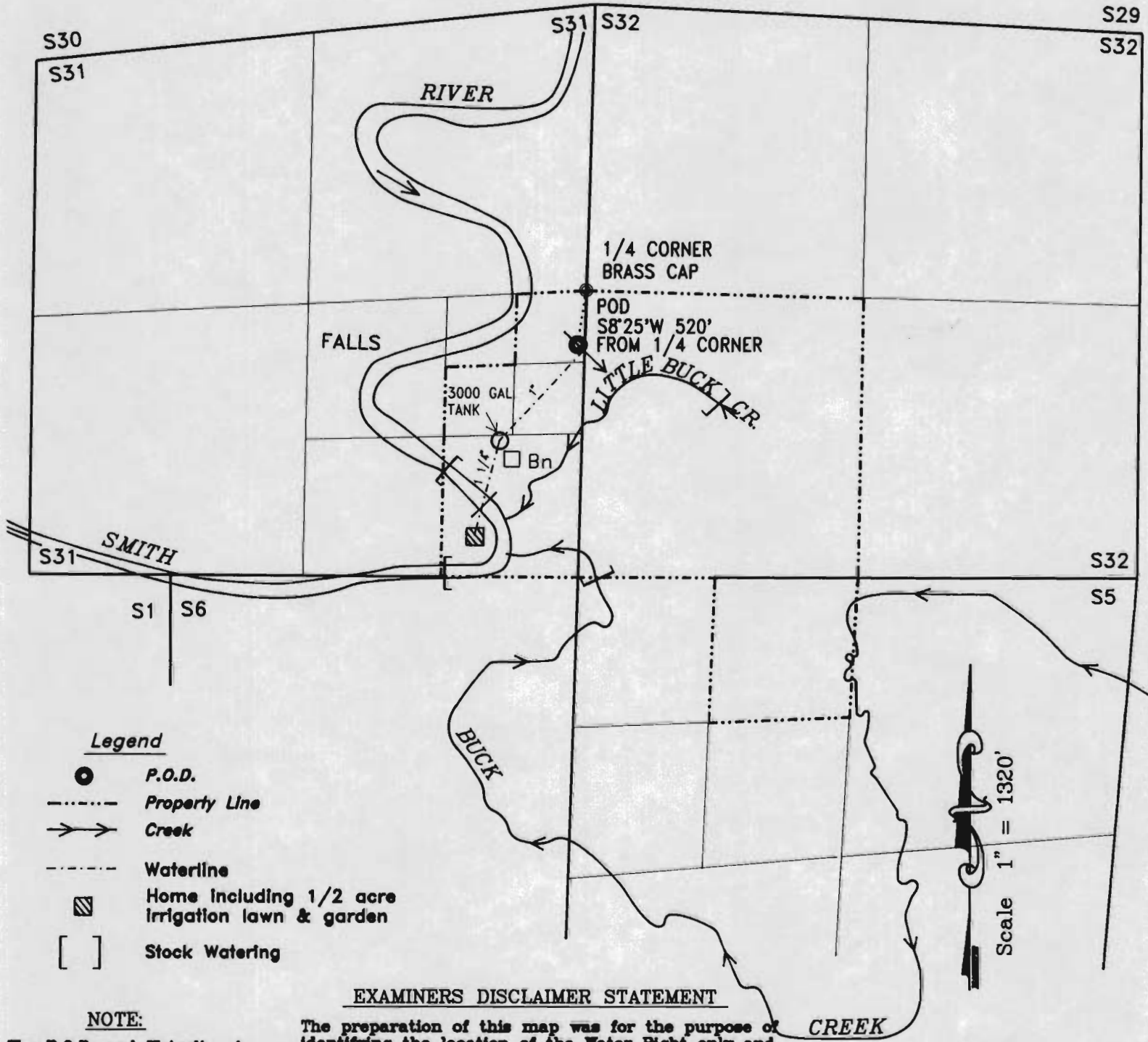
Enclosed are corrected maps for Irene Black and Joe Goularte. I have shown the location of the house for both and I added the 1/4 lines for Goularte as per your instructions.

Sincerely

Harvey Wilcox

RECEIVED
NOV 30 1993
WATER RESOURCES DEPT.
SALEM, OREGON

Section 31 & 32 Township 20S Range 9W W.M.
 Section 5 Township 21S Range 9W W.M.
 Douglas County



Legend

- P.O.D.
- Property Line
- Creek
- Waterline
- ▨ Home including 1/2 acre irrigation lawn & garden
- [] Stock Watering

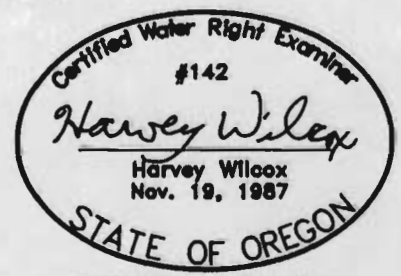
NOTE:

The P.O.D. and Waterline is entirely located on property owned by the applicant.

EXAMINERS DISCLAIMER STATEMENT

The preparation of this map was for the purpose of identifying the location of the Water Right only and has no intent to provide dimensions or location of property ownership lines.

PRE 1909 VESTED WATER RIGHTS SURVEY
 IN THE NAME OF
Irene Black



EXPIRES 12/31/94

Surveyed on January 6, 1993 by H.A. Wilcox



TELEPHONE (503) 267-2872
FAX (503) 267-0588

705 SO. 4TH, P.O. BOX 118
COOS BAY, OREGON 97420

RECEIVED

DEC 30 1992

WATER RESOURCES DEPT.
SALEM, OREGON

December 29, 1992

Mrs. Irene M. Black
27277 Lower Smith River Road
Reedsport, OR 97467

Dear Mrs. Black:

This is to confirm that I will prepare a map and site report for your pre-1909 vested water rights. I will not have time to complete the map before the 12/31/92 deadline. If you send a copy of this letter with your registration statement, it is my understanding that Water Resources will give you an extension so that I can complete the map as soon as possible.

Sincerely,

A handwritten signature in cursive script that reads 'Harvey Wilcox'.

Harvey Wilcox, WRE #142