

SURFACE WATER REGISTRATION CHECKLIST

(received after July 18, 1990)

CHECK BASIN MAP Dev NAME Uyupqua # 16 UNADJUDICATED AREA ? yes
 RECEIPT # 95692 S W R NUMBER 320
 CHECK ENCLOSURES Dev PRELIMINARY DATA BASE ENTRY DWF
 ACKNOWLEDGEMENT LETTER Dev ENTER ON STREAM INDEX _____
 CHECK QUADRANGLE MAP _____ CHECK GLO PLATS _____
 WATERMASTER CHECKLIST _____ PUBLIC NOTICE PUBLICATION 8/88

FORM REVIEW

_____ blanks filled in
 _____ signed
 _____ date received stamped

? [CLAIM SHOWS 1 DOM
 MAP SHOWS 2 DOM

MAP REVIEW

source and trib
 diversion point location
 conveyances (pipes, ditch, etc.)
 place of use
 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

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

March 10, 1993


GEORGE BLACK
9882 LOWER SMITH RIVER ROAD
REEDSPORT OR 97467

RE : SWR-326

Dear Mr Black,

This will acknowledge receipt of the map to support your claim to a pre-1909 water use. The map and data will be added to your file and in the future a complete review will be done.

Sincerely,



Don Knauer
Adjudication Specialist

M:\WP51\SWR\CLAIMANT\SWR-0326.003



3850 Portland Rd NE
Salem, OR 97310
(503) 378-3739
FAX (503) 378-8130

March 4, 1993

HARVEY WILCOX
PO BOX 118
COOS BAY OR 97420

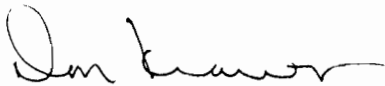
RE: Surface Water Registration Map

Dear MR WILCOX,

GEORGE 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-326.

Sincerely,



Don Knauer
Adjudication Specialist

C:\WP51\SWR\CLAIMANT\SWR-0326.002



3850 Portland Rd NE
Salem, OR 97310
(503) 378-3739
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March 4, 1993

GEORGE BLACK
9882 LOWER SMITH RIVER ROAD
REEDSPORT OR 97467

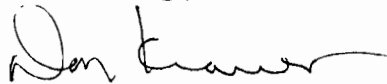
Dear MR BLACK,

This will acknowledge that your Surface Water Registration Statement in the name of GEORGE BLACK has been received by our office. The fees in the amount of \$400.00 have been received and our receipt #95692 is enclosed. Your registration statement has been numbered SWR-326.

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

C:\WP51\SWR\CLAIMANT\SWR-0326.001



3850 Portland Rd NE
Salem, OR 97310
(503) 378-3739
FAX (503) 378-8130

**STATE OF OREGON
WATER RESOURCES DEPARTMENT**

RECEIPT # **95692**

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

RECEIVED FROM: George Beck
BY: _____

APPLICATION	
PERMIT	
TRANSFER	

CASH: CHECK: # X 96104 OTHER: (IDENTIFY)

TOTAL REC'D \$ 400.00

01-00-0 WRD MISC CASH ACCT

842.010	ADJUDICATIONS	\$ <u>400.00</u>
831.087	PUBLICATIONS/MAPS	\$
830.650	PARKING FEES Name/month	\$
_____	OTHER: (IDENTIFY)	\$

REDUCTION OF EXPENSE

_____	CASH ACCT.	\$
_____	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

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

RECEIPT # **95692**

DATED: 12-30-92 BY: [Signature]

RECEIVED

MAR 10 1993

CLAIM OF BENEFICIAL USE AND SITE REPORT FOR PRE 1909 VESTED WATER RIGHTS. WATER RESOURCES DEPT.
SALEM, OREGON

INFORMATION:

THE PERMITEE IS GEORGE BLACK. I TALKED TO GEORGE ON THE SITE AND HE SHOWED ME HIS DOMESTIC WATER SYSTEM AND WHERE THE STOCK WATER FROM THE CREEKS.

ADDRESS: GEORGE BLACK
9882 LOWER SMITH RIVER ROAD
REEDSPORT, OREGON 97467

SOURCE:

THE SOURCE FOR THE DOMESTIC WATER IS AN UNNAMED STREAM WHICH IS A TRIBUTARY OF ESLICK CREEK. THE SOURCE FOR THE STOCK WATERING IS FOUR UNNAMED STREAMS THAT FLOW INTO ESLICK CREEK, THE EAST FORK OF ESLICK CREEK AND ESLICK CREEK ITSELF.

DIVERSION POINT:

THE DIVERSION POINT FOR THE DOMESTIC USE IS 20' OF 3" PLASTIC PIPE LAYING IN A NATURAL CHANNEL IN THE UNNAMED STREAM. THIS PIPE DIVERTS THE WATER TO A 50 GALLON SETTLEMENT BARREL. THE STOCK WATERING IS INSTREAM.

MOTOR/PUMP:

THIS IS A GRAVITY SYSTEM.

PIPE

THERE IS 410' OF 1" PLASTIC PIPE FROM THE SETTLEMENT BARREL TO THE 5000 GALLON CONCRETE STORAGE TANK. THERE IS 75' OF 2" IRON PIPE FROM THE STORAGE TANK WHICH REDUCES TO 1140' OF 1 1/2" IRON PIPE TO THE FIRST HOUSE. THERE IS THEN 500' OF 1 1/2" PIPE FROM THE FIRST HOUSE TO THE SECOND HOUSE.

HEADS

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

USES

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

LIFT

THE POD IS 80' ABOVE THE STORAGE TANK AND THE STORAGE TANK IS 120' ABOVE THE HOUSES. BOTH HOUSES ARE AT THE SAME ELEVATION. THE MEASURED PSI AT THE HOUSES IS 57 PSI.

CALCULATIONS

I MEASURED 57 PSI AT THE HOUSES. THERE IS 1215' OF 1 1/2" IRON PIPE FROM THE STORAGE TANK TO THE FIRST HOUSE. THERE IS 1715' OF 1 1/2" IRON PIPE FROM THE FIRST HOUSE TO THE SECOND HOUSE. USING THE ATTACHED NOMAGRAPH THE SYSTEM CAPACITY AT THE FIRST HOUSE IS 0.076 CFS. THE SYSTEM CAPACITY AT THE SECOND HOUSE IS 0.065 CFS. THERE ARE PRESENTLY 20 CATTLE ON THE RANCH FOR THE WINTER BUT GEORGE SAID THE MAXIMUM HE RUNS IS 100 CATTLE. AT 15 GALLONS PER HEAD THIS GIVES 1500 GALLONS PER DAY INSTREAM STOCK WATERING.

RECEIVED

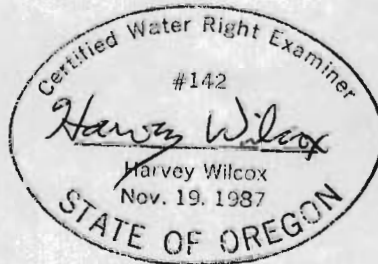
MAR 10 1993

WATER RESOURCES DEPT.
SALEM, OREGON

SURVEY TIE

I TIED THE W1/16 BETWEEN SECTIONS 26 & 35 AND AN ALUM. POST SET ON THE PROPERTY LINE 263' NORTH OF THE CORNER. BOTH OF THESE WERE SET BY ME IN A PREVIOUS SURVEY. I USED THE POST FOR MY BASIS OF BEARINGS WHICH IS BASED ON A SOLAR OBSERVATION. THE W1/16 IS AN ALUM. CAP. I TIED THESE CONTROL POINTS TO THE POD USING A THEODOLITE AND EDM. THE POD IS N54DEG 15'W 920' FROM THE W1/16.

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.

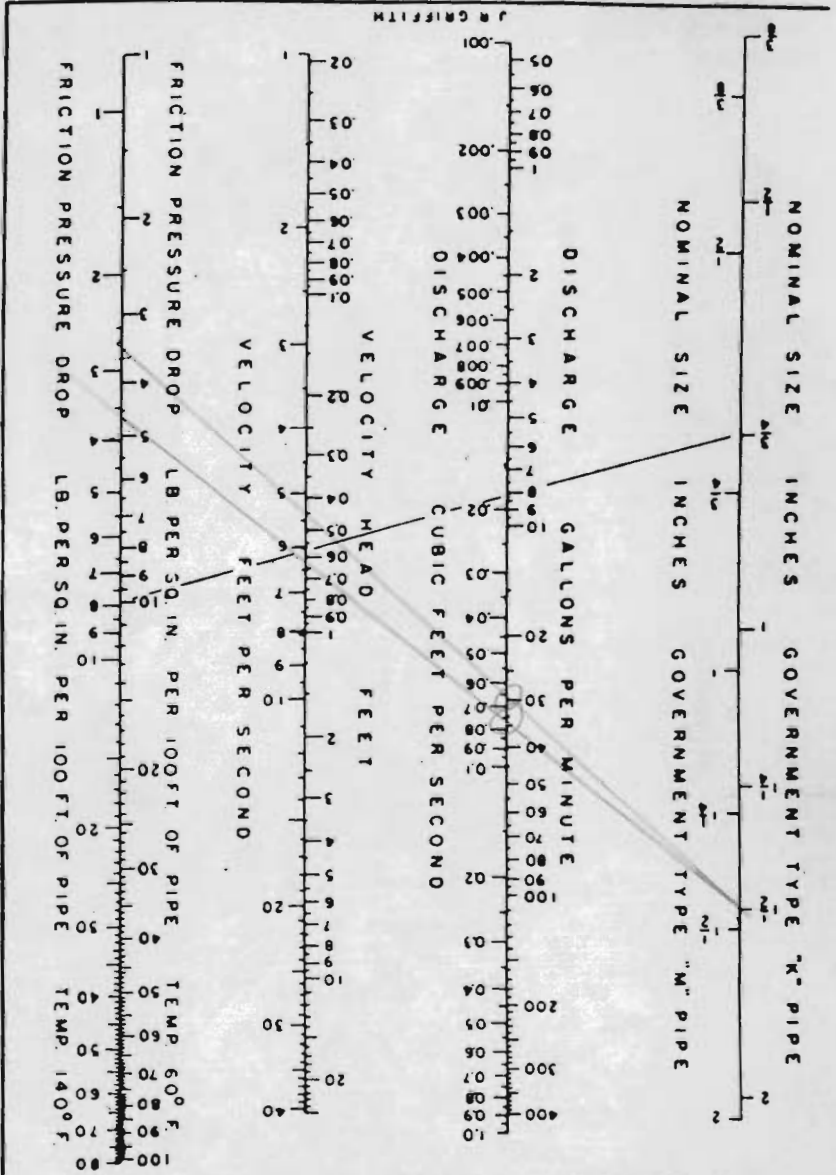


I, GEORGE BLACK, AGREE TO THE FINDINGS OF THE CWRE AND DO SUBMIT THIS SITE REPORT AND MAP AS MY CLAIM OF BENEFICIAL USE OF THE WATER AS PROVIDED UNDER THE TERMS AND CONDITIONS OF PRE 1909 VESTED WATER RIGHTS.

SIGNATURE George Black

registration statement numbered
5WR-326

COPPER & BRASS PIPES



Flow of Water in Small Pipes

3/8 to 2-in. diam.

HERE 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 Outside Dia., in.	Wall Thickness, in. Type "K"	Wall Thickness, in. Type "M"
2	.025	.028
1 1/2	.049	.065
1	.065	.083
3/4	.083	.1125
1/2	.1125	.1625
1/4	.1625	.2125
2	.058	
1 1/2	.049	
1	.042	
3/4	.035	
1/2	.032	
3/8	.028	
1/4	.025	

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.
Pressure drop = $\frac{20}{10} = 2$ 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 with 140 deg. F. would be 7.9 lb. per sq. in. at 100 ft. of pipe.

From the tables, Discharge = 8.2 gal. per min. Discharge = $\frac{48.83}{8.2} = 0.0183$ cu. ft. per sec.

Area of 3/4-in. type "K" pipe
 $A = \frac{3.1416[(0.875 - 2(0.065))^2]}{4} = 0.436$ sq. in.
Area = $\frac{144}{0.436} = 0.00303$ sq. ft.

Discharge = 0.0183
Vel. = $\frac{0.00303}{6.04 \text{ sec. ft.}} = 6.04$
Velocity head = $\frac{2g}{V^2} = \frac{64.4}{6.04^2} = 1.79$

NOTES FOR 1967 EDITION
Inverters data must be consulted for these sections of the described pipe.
Not many references pertaining to small diameter tubing or pipe are available at present, particularly as regards water at 60 deg. F. in 3/4-in. Government type "K" copper tube for a total pressure

RECEIVED
MAR 10 1993
WATER RESOURCES DEPT
ALEM, OREGON
Bridgport Brass Co., Bridgeport, Conn.
Water Pipe Sizes, by Walter S. Timmla

RECEIVED

MAR 10 1993

WATER RESOURCES DEPT.
SALEM, OREGON

Calculations

1st house

57 psi and 1215' of 1½" pipe
using attached nomograph gives a
system capacity of 0.076 CFS

2nd house

57 psi 1215' of 1½" pipe
using attached nomograph gives a
system capacity of 0.065 CFS

Stock Watering

100 cattle at 15 GPD gives 1500 GPD



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

George Black
9882 Lower Smith River Road
Reedsport, OR 97467

Dear Mr. 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,

Harvey Wilcox

Harvey Wilcox, WRE #142