

RIGHT NUMBER: 95-4394

NAME AND ADDRESS: HAGADONE HOSPITALITY CO
PO BOX 6200
COEUR D ALENE ID 83816

SOURCE: COEUR D ALENE LAKE

TRIBUTARY: SPOKANE RIVER

QUANTITY: 4.010 CFS
401.00 AFY

Right Nos. 95-4394, 95-8593 and 95-8737 are limited to a total combined diversion rate of 4.01 cfs. Right Nos. 95-4394 & 95-8593 are limited to a total combined volume of 401.00 AFY

PRIORITY DATE: 12/31/1919

POINT OF DIVERSION: T50N R03W S19 NWSE Lot 5 Within KOOTENAI County

PURPOSE AND
PERIOD OF USE:

PURPOSE OF USE	PERIOD OF USE	QUANTITY
IRRIGATION	03/01 11/15	4.010 CFS 401.00 AFY

PLACE OF USE: IRRIGATION in KOOTENAI County

T50N R03W S19 Lot 1 NWNE	1.00	T50N R03W S19 SWNE	13.00
T50N R03W S19 NENW	37.00	T50N R03W S19 NWNW	0.30
T50N R03W S19 Lot 3 SWNW	22.00	T50N R03W S19 Lot 4 SENW	39.00
T50N R03W S19 NESW	2.50	T50N R03W S19 Lot 4 NESW	5.80
T50N R03W S19 NWSE	1.80	T50N R03W S19 Lot 5 NWSE	11.10

133.5 ACRES TOTAL

OTHER PROVISIONS NECESSARY FOR DEFINITION OR ADMINISTRATION OF THIS WATER RIGHT:

This partial decree is subject to such general provisions necessary for the definition of the rights or for the efficient administration of the water rights as may be ultimately determined by the Court at a point in time no later than the entry of a final unified decree. Section 42-1412(6), Idaho Code.

Diversion of water under this right is subject to the minimum lake level parameters established for Coeur d' Alene Lake under Water Right 95-2067.

EXPLANATORY MATERIAL: BASIS OF CLAIM - Beneficial Use

Right includes accomplished change in nature & place of use pursuant to Section 42-142S, Idaho Code.

Point of Diversion Parcel No. C00000194400; Place of Use Parcel Nos. C00000194400, C7630001003A, and C00000192600

Right No 95-8593 & Right No. 95-8737 are also diverted through the point of diversion described above.

Rutledge Mill Water Use Information in Support of Adjudication Claim 95-4394

Below is listed information relative to water use at the Rutledge Mill. Attached are copies of documents referenced in items 1-3. This information came from archives of the Potlatch Lumber Company stored at the University of Idaho library. Records of the water rights of the Atlas Tie Mill came from the records of the Idaho Department of Water Resources.

1. A 1919 appraisal of the Edward Rutledge Timber Company includes a listing of two water pumps. There is no direct information on pump capacity, but one pump is described as being powered by a 35 hp electric motor and having an eight inch discharge. The other has a ten inch discharge. No information is available for the connected horsepower on this pump. Assuming 75 percent efficiency and a total dynamic head of 55 feet, the 35 hp pump would produce about 4.2 cfs. This appraisal report makes no mention of the 1000 hp Corliss steam engine that was once used to generate electric power for the mill. I believe this engine was installed sometime in the 1930's. It is unknown if this steam engine required water over and above the capacity that was available at the time of the property appraisal.
2. A 1923 report on a steam condenser installation shows a requirement of 1,850,000 pounds of cooling water per hour which equals 3697 gpm or 8.8 cfs
3. Boiler inspection reports for the mill done 1933 & 1935 list seven steam boilers. There is no information on water requirements of the boilers. It is, however, evidence of water use at the mill.
4. The Atlas Tie Mill is the only other saw mill in the area to have filed water rights. Those recorded water rights are 95-4597 & 95-8262. From those water rights the amounts of water used at the Atlas Mill for non-fire suppression uses is 1450 gpm. Two separate sources that worked at the Atlas Mill indicated that the Rutledge Mill was approximately twice the size of the Atlas Mill, both in the number of employees and the amount of lumber produced. If one assumes a linear relationship between water usage and the size a mill, the usage at the Rutledge Mill would be about 2900 gpm or 6.46 cfs

All of these quantifiable metrics are in excess of the claim filed by Hagadone Hospitality for 4.01 cfs for the golf course.

MACHINERY

Machine #1, Pump

1 20x12x16" Underwriters Fire Pump, duplex type, brass fitted, 14" suction, 10" discharge, 5" steam, 6" exhaust; Mfd. by Fairbanks Morse Co., f.o.b. Factory
Freight and Installation

3,763.00
610.00

4,373.00

Foundation

1 Concrete sill 9x4'x8"

15.00

15.00

Total Machine #1

Machine #2, Pumping Set

1 8" CLBS Worthington Centrifugal Pump, #563596, 8" discharge, 10" suction, direct connected to 35 H.P. Induction Motor, 440 volts, 3-phase, 60 cycles, 43 amps., 1,150 R.P.M., #3K7968.3; Mfd. by Allis-Chalmers, complete with patented starter, flexible coupling and cast iron base; f.o.b. Spokane
Freight and Installation

1,315.00
165.00

Total Machine #2

Total Machinery

Steam Lines

16'	5"	Pipe, covered		
2	"	Flange reducing tee, covered	1.59	25.44
3	"	elbow, covered	19.80	39.60
1	5"	" Gate valve, covered	9.77	29.31
1	"	Long nipple, covered	78.75	78.75
5	"	Companion flanges	2.46	2.46
4	2"	Standard companion flanges	3.02	15.10
3	"	Long nipples, covered	.90	3.60
2	"	250# Globe valves, covered	.24	.72
1	1	Pt. Swift lubricator	7.70	15.40
1	1	Qt. right feed mechanical oiler	5.00	5.00
4'	1"	Pipe to Trap	26.40	26.40
1	3/2"	Crane tilt trap	.05	.20
4	1"	Elbows	55.00	55.00
2	"	Railroad unions	.19	.76
6	"	Long nipples	.23	.46
1	2"	125# Gate valve	.04	.24
2	"	Bushings	1.44	1.44
14'	6"	Exhaust pipe	.04	.08
1	"	45° Cast elbows	1.34	18.76
2	"	Long nipples	2.93	5.86
28'	1"	Pipe to syphon	1.45	2.90
2	"	250# Globe valves	.10	2.80
4	"	Elbows	2.45	4.90
5	"	Long nipples	.08	.32
1	"	Railroad union	.06	.18
40'	2"	Discharge pipe	.36	.36
1	"	Railroad union	.20	8.00
1	"	Tee	.90	.90
1	"	Bushing	.36	.36
2	"	Cast elbows	.11	.11
12'	1 1/2"	Drain pipe	.24	.48
1	"	Railroad union	.15	1.80
3	"	Cast elbows	.72	.72
2	"	Reducing tees	.17	.51
3	"	Long nipples	.27	.54
4	1"	120# Gate valves	.09	.27
16	"	Long nipples	1.16	4.64
2	1"	Reducing tees	.04	.64
1	"	Tee	.12	.24
4	"	Railroad unions	.06	.06
8	"	Elbows	.23	.92
4	"	Lever handle cocks	.05	.40
4	"	Railroad unions	.68	2.72
2	1"	Elbows	.25	.92
1	"	Bushing	.04	.08
1	"	Railroad union	.04	.04
1	"	Pipe	.04	.27
1	"	Reducing tee	.27	.42
			.07	.12
			.12	

PIPE AND FITTINGS

304

10'	1 1/2"	Drain pipe		
4	"	Elbows	.13	1.50
1	"	Railroad union	.13	.52
			.54	.54

Water Lines

10'	1 1/2"	Suction pipe		
2	"	Flange elbows	3.90	62.40
4	"	Companion flanges	40.73	81.46
1	"	Foot valve and strainer	9.32	37.28
12'	5"	Blow-off pipe	67.50	67.50
1	"	Crosby angle valve flange	1.04	12.48
1	"	Companion flange	21.60	21.60
1	"	Elbow	3.02	3.02
1	10"	125# Iron body flange check valve	4.13	4.13
1	"	Long nipple	92.00	92.00
1	10"	125# Iron body yoked flanged Gate valve	2.63	2.63
5	"	Companion flanges	90.47	90.47
24'	10"	Suction pipe	8.01	24.03
2	"	Elbows	2.63	63.12
1	"	Foot valve and strainer	11.45	22.90
70'	8"	Delivery pipe to Condensor buried	28.80	28.80
1	"	Iron body flanged Gate valve	3.88	271.50
1	"	Companion flange	59.85	59.85
2	"	Elbows	3.42	3.42
6'	2"	Pipe	5.74	11.48
1	2"	250# Gate valve	.20	1.20
6'	"	Pipe	5.10	5.10
3	"	Cast elbows	.07	.56
1	"	Railroad union	.07	.21
1	"	Long nipples	.27	.27
1	"	Railroad union	.04	.16
40'	2"	Railroad union	.90	.90
	2"	Brain pipe	.37	14.80

Oil Room

40'	4"	Pipe in coil and feed	.05	2.00
3	"	Elbows	.05	.15
1	"	250# Globe valve	1.30	1.30
3	"	Open return bends	.13	.65
1	"	Reducer	.05	.05
14'	"	Drain pipe	.05	.70
1	"	250# Globe valve	1.30	1.30
		Installation		676.54

Total Pipe and Fittings

2,029.62

Westinghouse-Leblanc Condenser

PERFORMANCE SPECIFICATION

For **POTLATCH LUMBER COMPANY**

Date **12-20-23**

General Description—Condenser is to be an improved type jet condenser consisting of a condenser body of correct proportions for the highest vacuum. To the lower portion of the body there will be attached a special centrifugal pump and a turbine type vacuum air pump, with cast iron bodies, both pumps being on the same shaft and integral with the condenser body. The condenser is to operate in connection with **2000 KW**

Westinghouse steam turbine

Capacity—The conditions under which this condenser shall operate are understood to be as follows:

Level of water supply below top of condenser, not to exceed	18	feet
Discharge water to be elevated above base of condenser, not to exceed (including pipe friction)	4	feet
Suction piping to be so arranged that friction head will not exceed the equivalent of	2	feet

Injection Water: **FRESH** **XSMT** **ACR**

This condenser when operating under the above conditions, and when practically free from air leaks, will maintain the following vacua referred to a 30" barometer, for the corresponding quantities of steam condensed and when so operating will not require more than **1,850,000** pounds of cooling water per hour

Injection Water Temperature In Degrees Fahr.	Condenser Steam Per Hour	Vacua
60°	55000	28.18

Condenser Body—The condenser body to be of close grained cast iron and so proportioned as to conform to the capacity requirements specified above. Condenser body to contain mixing chamber and discharge chamber.

Vacuum Air Pump—The salient feature of the Westinghouse-Leblanc condenser lies in its ability to discharge against atmospheric pressure the air normally held in solution by the injection water and the exhaust steam. This action is accomplished by the agency of the turbine-type air pump, in which the air is cooled and evacuated without the restrictive influence of valves, clearance, or the re-evaporation of moisture within the pump. The turbine wheel projects the water in a succession of water pistons into the discharge nozzle. Its action is in effect the same as that of a solid piston moving in a cylinder of the same length, cold water in this case acting as a piston.

Wm H. C. CORSON, PRESIDENT

THE HARTFORD STEAM BOILER



LOUIS F. MIDDLEBROOK, SECRETARY

INSPECTION AND INSURANCE COMPANY

ERNEST G. WATSON
MANAGER AND CHIEF INSPECTOR

SEATTLE DEPARTMENT
707 ARCTIC BUILDING, SEATTLE, WASH.

September 8, 1933

FILE NO. _____

REPORT OF INSPECTION

DATE OF INSPECTION September 5, 1933 INSPECTOR F. H. Fullmer

LOCATION Assured's Plant, Coeur d'Alene, Idaho

5 - Horizontal Tubular Boilers; No. 1; No. 2;
No. 3; No. 4; No. 5; Located in Boiler-room

These boilers were examined externally while in service, 127 lbs. pressure was registered at the time. Boilers and appliances were in good order there being no evidence of leakage or distress at any accessible or visible areas. The safety valves lifted freely at the above stated pressure. The general condition of the boilers and boiler plant indicate good care.

Main Steam Pipes.

The main steam piping was properly drained and supported.

Yours very truly,

E. G. Watson
Chief Inspector.

WJS:mj

W. R. C. CONSON, PRESIDENT



LOUIS F. MIDDLEBROOK, SECRETARY

INSPECTION AND INSURANCE COMPANY

W. R. C. CONSON, PRESIDENT

THE HARTFORD STEAM BOILER



LOUIS F. MIDDLEBROOK, SECRETARY

INSPECTION AND INSURANCE COMPANY

ERNEST G. WATSON, MANAGER

W. J. SMITH, CHIEF INSPECTOR

SEATTLE DEPARTMENT
707 ARCTIC BUILDING, SEATTLE, WASH.

August 1, 1935

POLICY NO. 4174

REPORT OF INSPECTION

DATE OF INSPECTION July 30, 1935

INSPECTOR F. E. Fuller

LOCATION Potlatch Forests, Inc., 5th and Sherman Sts., Coeur d'Alene, Idaho

Locomotive Boiler; No. 1; Located Office Bldg.
Inspected internally and externally

Slight corrosion in the form of scattered pitting was observed on the tubes. To retard this action we recommend adding about 5 lbs. lime to the water when filling for service and this be permitted to remain during the heating season.

No other conditions were observed that require consideration at this time.

Yours very truly,

WJS:mj

Chief Inspector.

Orig & 2 cc. Potlatch Forests, Inc.,
Lewiston, Idaho



INSPECTION AND INSURANCE COMPANY

W. J. SMITH, Chief Inspector

DEPARTMENT

61 LEWIS SEATTLE WASH.

APR 30, 1935

POLICY NO. 4174

AT OF INSPECTION

DATE OF INSPECTION December 27, 1935 INSPECTOR F. H. Fullmer

LOCATION Potlatch Forests, Inc., 6th & Sherman Sts., Coeur d'Alene, Idaho

Birchfield Boiler, No. 1
Located in Office Building

This boiler, inspected externally in service, was carefully examined for signs of leakage, overheating and other defects. The safety valve and the various other safety appliances were examined to ascertain their operating condition.

No conditions were observed that require attention at this time.

Yours very truly,

WJB:10

Chief Inspector

Orig. & 2 cc: Potlatch Forests, Inc.
Lewiston, Idaho

TO

Meyerhauser Timber Company