

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-9370

Exam Date: 7/2/2008

1. Current Owner: PETER STANTON
PO BOX 2191
SPOKANE WA 99210
(509)353-3939
2. Accompanied by: DORIC CREAGER
Phone No: 509-747-8050
Address: 12 WEST PACIFIC AVENUE, SPOKANE, WA 99201
Relationship to Permit Holder: PROJECT MANAGER
3. SOURCE TRIBUTARY
COEUR D ALENE LAKE SPOKANE RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: NONE
2. Other water rights with the same point of diversion: NONE

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

COEUR D ALENE LAKE L3 NW¼SW¼ Sec. 10, Twp 48N, Rge 04W, B.M. KOOTENAI County

Method of Determination: GPS

2.

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
48N 04W 10	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	1.0
										1.0							L 3

Total Acres: 1

Method of Determination:

3. ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- ☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- ☒ Aerial Photo Attached (required for irrigation of 10+ acres).
- ☒ Photo of Diversion and System Attached

4.

<u>Well or Diversion ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge Size</u>

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

<u>Measurement Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>

2. Measurements:

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

measured method.

PUMP EQUATIONS WATER RIGHT No. 95-9370						
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	0.75	160.3401361	0.8	10	65
Q =	0.033 cfs 14.8 gpm					

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1 \times 3 = 3$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.03 \times 246 \times 1.9835 = 14.6$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 3$$

2. Volume Calculations for Other Uses:

G. NARRATIVE/REMARKS/COMMENTS

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	03/15 to 11/15	0.030 CFS	3.00 AF
<u>Totals:</u>		0.030 CFS	3.00 AF

2. Recommended Amendments

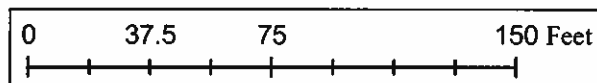
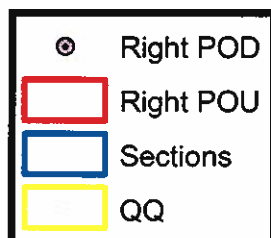
☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

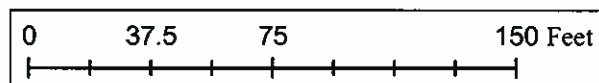
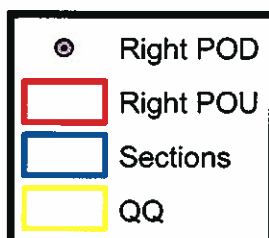
I. AUTHENTICATION

Field Examiner's Name [Signature] Date 7-17-08
 Reviewer [Signature] Date 7/18/08

95-9370



95-9370



#95-9370
PETER SANTON



Serving the Inland Northwest Since 1958

August 3, 2008

Derrick

R.C. Worst & Company Inc.
825 Best Avenue
Coeur d'Alene, ID 83814-3740
Phone: (208)884-2133
Fax: (208)887-8776

Subject: Submersible lake pump and pressure system for irrigation

We propose to install a submersible lake pump and pressure system for your project under construction at the Stanton home for a total cost of \$4280.00. The following major pieces of equipment along with accessories will be installed to provide a complete, functional system.

A.Y. McDonald Submersible Lake Pumping System

The pumping unit will consist of an A.Y. McDonald model 23876P3, 18 gallon per minute, 0.75 HP pump and coupled to a 0.75 HP, 230/1 VAC Franklin Electric 4" submersible motor. A.Y. McDonald 2300 series submersible pumps feature stainless steel motor bracket and discharge nozzle, 7/16" stainless steel hex shaft, polished stainless steel shell and removable Flomatic check valve built into discharge nozzle. Franklin Electric motors feature corrosion resistant all stainless steel exterior construction, stainless steel spline shaft, hermetically sealed windings, and built in lightning arrestors. Factory warranty on the pump and motor will be 1 year (optional 5-year warranty available). The pump and motor will be set into the lake by an experienced diver. The pump will be set on 300-feet of 1-1/4-inch poly pipe, weighted to prevent flotation. This estimate also includes a PVC intake structure, 1-1/4 inch lead free check valve, submersible pump cable, waterproof splice kit, and associated fittings.

Amtrac Pressure System

The pressure tank will be an Amtrac model WX-855, 51 gallon pressure tank. Amtrac tanks feature seamless heavy-duty built diaphragm, polypropylene liner, 100% non-metallic water reservoir, 100% corrosion resistant water reservoir, and enamel exterior finish. Factory warranty on the tank(s) will be 5 years. The pressure system will also include a Square D pressure switch, pressure gage, Willars pressure relief valve, drain valve, 1-1/4 and 1 inch galvanized piping and associated fittings. The pressure system and pump control box will be installed in the mechanical room. Our portion of the job will end at the 1" ball valve on the pressure tank discharge.

Prerequisites

You are required to provide all of the following prior to installation:

- provide one 240-volt, 20-amp branch circuit to the control box location (next to the pressure tank)

Exclusions

Our proposal does not include any of the following:

- excavation and backfill
- treatment or purification
- encroachment permit
- electrical supply circuit to panel location

Installation Notes

- We will make pump power connections providing that the power stub out at the panel location is in place at the time of panel installation.

Proposal

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P-2

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R.C. Worst & Co., Inc.

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Rpt 11 2008 4125PM

95-9370



Serving the Inland Northwest Since 1953

R.C. Worst & Company Inc.
 625 East Avenue
 Coeur d'Alene, ID 83814-3740
 Phone: (208)864-2133
 Fax: (208)867-6775

Terms

50% - 100% down and progressive monthly payments based upon work completed or materials and equipment stored but not installed. All progressive and final billing will be due upon completion. 1-1/2% interest per month will be charged on any unpaid balance over billing date.

Warranty

On new installation all new equipment that is supplied and installed by us will be warranted against defects in material or workmanship for a period of one year from the date of installation. We will at no charge, repair or replace any materials should a defect arise. We will not assume responsibility for incidental damages resulting from the failure of the equipment to perform.

Acceptance of Proposal

The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment in the amount of \$6260.00 will be made as outlined above.


 By Jim Derry
 R.C. Worst & Co., Inc.


 By Eric Blonick
 4/5/07

This proposal may be withdrawn after 30 days if not accepted.

Proposal

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08/03/08

P.C.

ICUBA/BB/R/13

R.C. WORST & CO., INC.

APR 05 07 11:09a



PLACE OF USE 1



PLACE OF USE 2



PLACE OF USE 3



PLACE OF USE 4



PLACE OF USE 5



PLACE OF USE 6



PLACE OF USE 7



PLACE OF USE 8



POINT OF DIVERSION



SYSTEM

95-9370



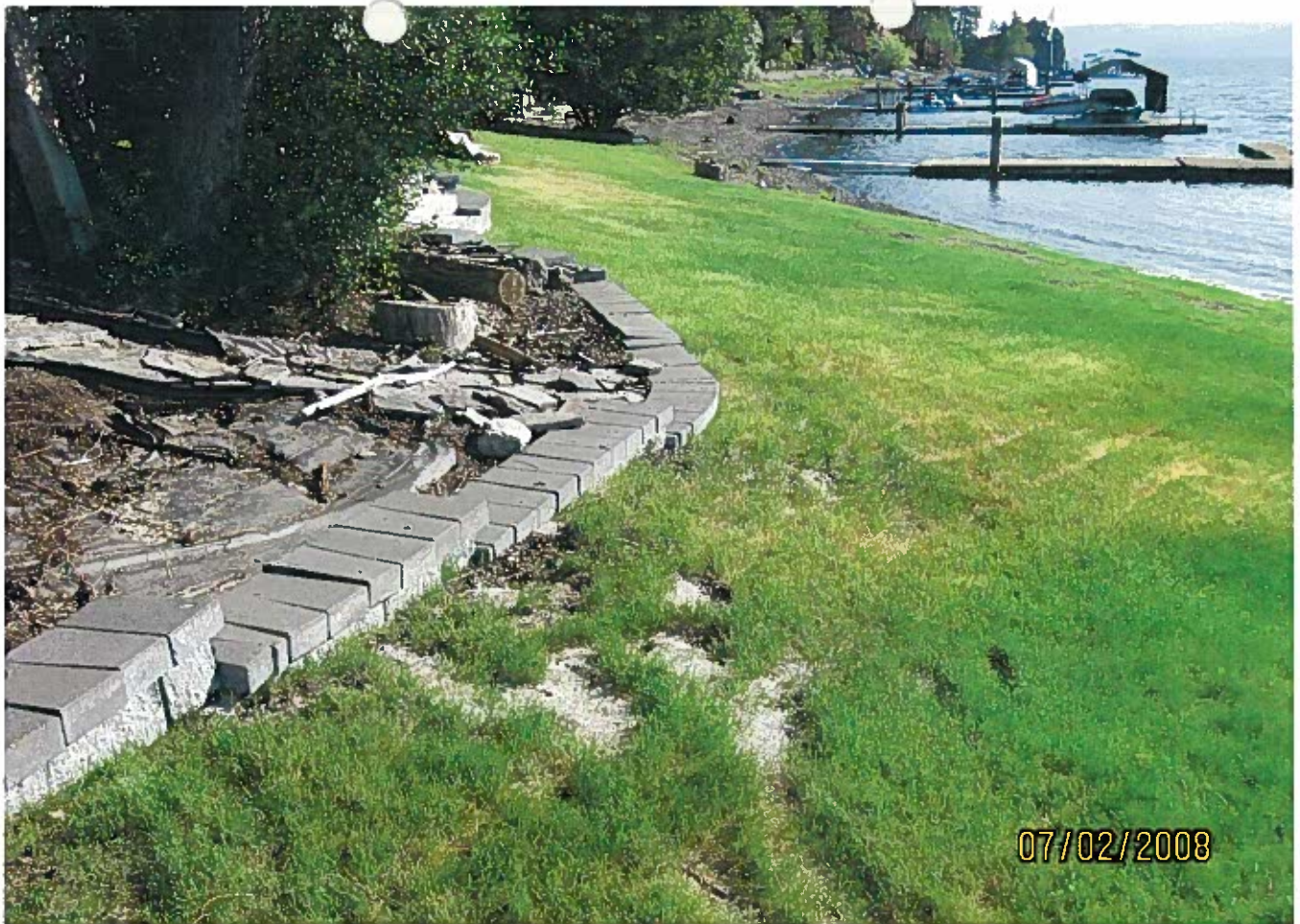
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