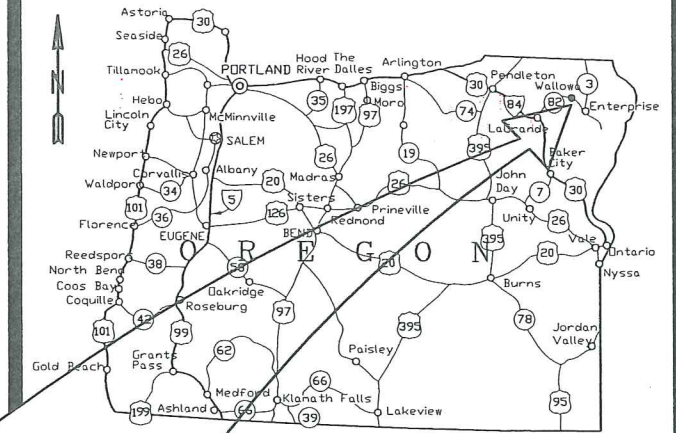


SPAUR RANCH SMALL CONDUIT EXEMPTION

LOCATED IN THE SOUTHWEST
ONE-QUARTER OF SECTION 31
TOWNSHIP 1 NORTH, RANGE 43 EAST
WILLAMETTE MERIDIAN
WALLOWA COUNTY, OREGON

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WATER RESOURCES DEPT
SALEM, OREGON



LOCATION
MAP
NOT TO SCALE

PROJECT AREA AND BOUNDARY

SURVEY POINTS

POINT NUMBER	NORTHING	EASTING	DESCRIPTION
COORDINATE VALUES EXPRESSED IN INTERNATIONAL FEET			
1	688,482 INT.FT.	8,972,513 INT.FT.	BUILDING CORNER
2	688,470 INT.FT.	8,972,525 INT.FT.	BUILDING CORNER
3	688,458 INT.FT.	8,972,514 INT.FT.	BUILDING CORNER
4	688,470 INT.FT.	8,972,502 INT.FT.	BUILDING CORNER



SCALE: 1"=10'

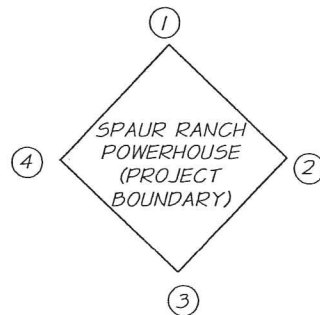
REGISTERED
PROFESSIONAL
LAND SURVEYOR

Michael B. Posada

OREGON
JANUARY 20, 1998
MICHAEL B. POSADA
02849LS

EXPIRES: 12-31-10

DATED: 04-05-10

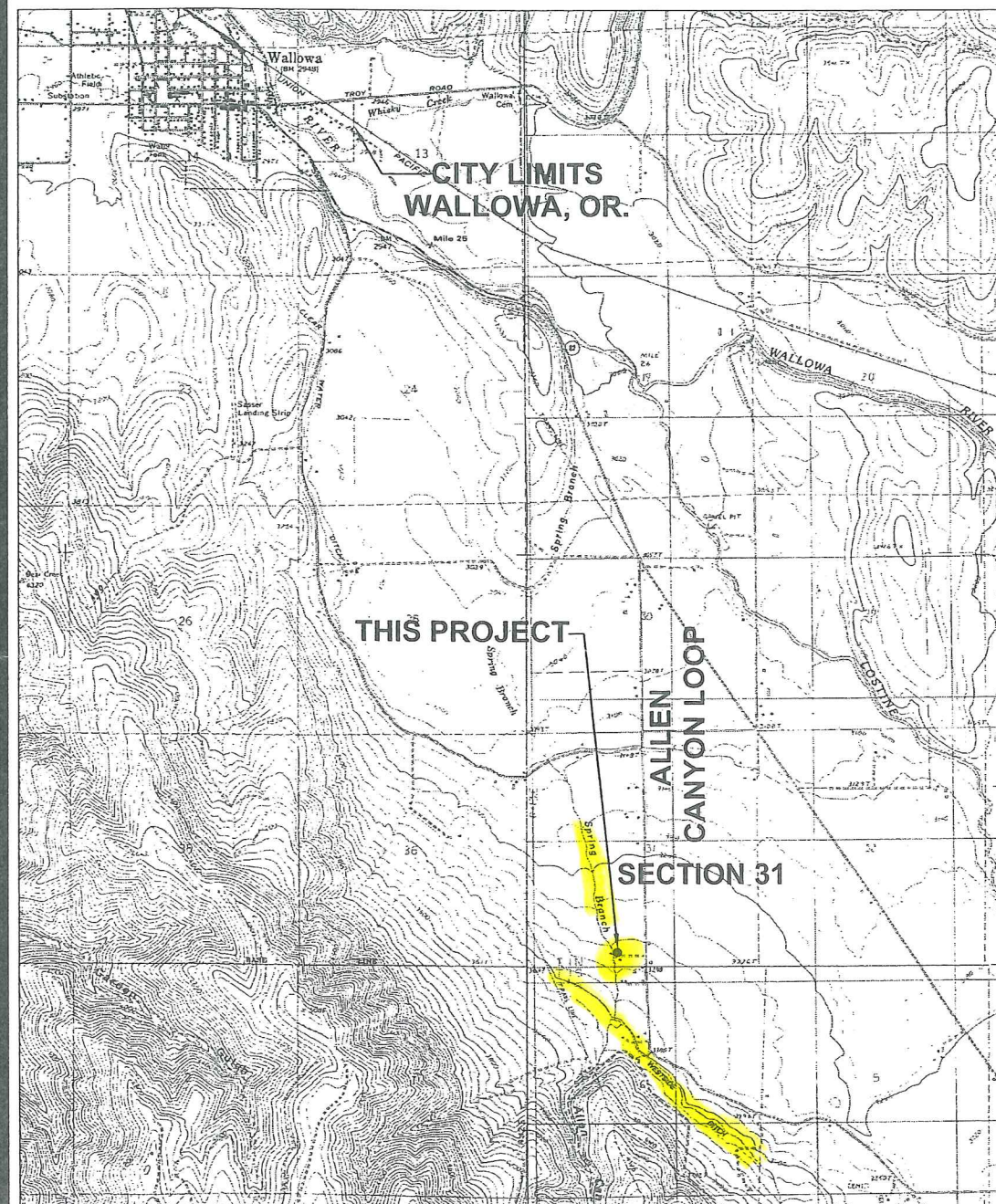


SURVEY DATUM

THE HORIZONTAL DATUM FOR THE COORDINATE VALUES SHOWN IS THE OREGON STATE PLANE COORDINATE SYSTEM, NORTH ZONE NAD 83.

NOTES

1. THE COORDINATE VALUES SHOWN ARE POSITIONALLY ACCURATE TO WITHIN ± 40 FEET.
2. THE PHYSICAL ADDRESS OF SPAUR RANCH IS 68832 ALLEN CANYON LOOP, LOSTINE OR. 97857
3. THE WALLOWA COUNTY TAX LOT PARCEL NUMBER IS 01N 43E TL# 8400
4. SPAUR RANCH IS LOCATED IN THE SOUTHWEST ONE-QUARTER OF SECTION 31, TOWNSHIP 1 NORTH, RANGE 43 EAST, WILLAMETTE MERIDIAN.



VICINITY MAP
SCALE: 1"= 2000' ±

CERTIFICATION:

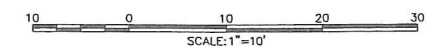
THIS DRAWING IS PART OF THE APPLICATION FOR LICENSE MADE BY THE UNDERSIGNED THIS _____ DAY OF _____ 20__.

SIGNATURE _____

APRIL 5, 2010

EXHIBIT: G FIGURE: 1
PROJECT NAME: SPAUR RANCH SMALL
CONDUIT EXEMPTION

PROJECT AREA AND
BOUNDARY SCALE: 1" = 10'





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WATER RESOURCES DEPT SALEM, OREGON

Spaur Ranch Small Conduit Hydroelectric Project

PROJECT INTRODUCTION, DESIGN, AND ENVIRONMENTAL IMPACT

Project Introduction

Over the past year, Spaur Ranch in conjunction with Renewable Energy Solutions, has undertaken feasibility analyses to determine the economic viability of installing a micro-hydroelectric facility on Spaur Ranch in Wallowa County, Oregon. The project would be located in SW ¼ Township 1 N, Range 43 E, Section 31, W.M, Wallowa County, Oregon (see enclosed maps). The proposed facility would be located on an existing, piped-irrigation conduit and would generate electricity via non-consumptive use of irrigation water flowing through the Ranch. No additional water would be diverted for the project.

System Design

The proposed Spaur Ranch Microhydro Project will include: (1) an existing 800-yard-long, 15-inch-diameter pipe that reduces to an existing 200-yard-long, 10-inch-diameter pipe, conveying water from the West Side Irrigation Ditch into an existing building containing an 11 kW pelton wheel turbine; (2) a short tailrace, conveying the water back into the irrigation canal; (3) appurtenant facilities. The power from the proposed project will be net metered, connected to the interstate grid through Pacific Power. The proposed project will not occupy any tribal or federal lands.

The meter is currently located at the building that also the terminus of the 10 inch water conveyance. Therefore transmission lines will not be necessary.

Environmental Impact

The West Side Ditch that conveys the water used in the project originates at the Lostine River, whose drainage area is 70.9 square miles. Monthly stream flow data follows. The project does not include additional civil work at the point of diversion at the river, and will not use any water storage. No additional piping or civil work is necessary at the project site. The project will use water already flowing through the existing conveyance.

There are multiple fish screens on the project. The West Side Ditch Company maintains a Fish Wheel at the diversion point from the Lostine River. The Ditch Company President responsible for maintenance is Leonard Post. An additional fish screen is located at the 15" pipe intake. The project owner, Vern Spaur, and other individuals on the irrigation conduit maintain the screen twice per day during the irrigation season. The screen is maintained via a broom and/ or a flush gate. The existing screens are effective and well-maintained. There are no additional screens proposed for the project.

Project Source Flow Data

No additional water will be withdrawn from the Project Source. The project is a non-consumptive use of water.

USGS 13330000 LOSTINE RIVER NEAR LOSTINE, OR

Available data for this site: Time-series: Monthly statistics GO

Wallowa County, Oregon
Hydrologic Unit Code 17060105
Latitude 45°26'20", Longitude 117°25'35" NAD27
Drainage area 70.90 square miles
Gage datum 3,650.00 feet above sea level NGVD29

Output formats
[HTML table of all data](#)
[Tab-separated data](#)
[Reselect output format](#)

YEAR	00060, Discharge, cubic feet per second, Monthly mean in cfs (Calculation Period: 2007-01-01 -> 2008-01-30)											
	Period-of-record for statistical calculation restricted by user											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2007	40.6	47.4	106.0	150.1	517.2	510.2	118.8	40.3	25.2	47.4	69.3	53.9
2008	34.1											
Mean of monthly Discharge	37	47	106	150	517	510	119	40	25	47	69	54

** No Incomplete data have been used for statistical calculation