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STATE ENGINEER  
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SALEM OREGON

Permit No. G-4273

APPLICATION FOR A PERMIT

CERTIFICATE NO. 44592

# To Appropriate the Ground Waters of the State of Oregon

I, State of Oregon, Oregon State University - Squaw Butte-Harney Experiment Station  
(Name of applicant)  
of P. O. Box 833, Burns, Oregon, county of Harney,  
(Postoffice Address)  
state of Oregon, do hereby make application for a permit to appropriate the following described ground waters of the state of Oregon, SUBJECT TO EXISTING RIGHTS:

If the applicant is a corporation, give date and place of incorporation

1. Give name of nearest stream to which the well, tunnel or other source of water development is situated Silvies River  
(Name of stream)

tributary of None

2. The amount of water which the applicant intends to apply to beneficial use is ..... cubic feet per second or 600 gallons per minute.

3. The use to which the water is to be applied is Supplemental Irrigation  
Experimental work on production of irrigated pasture, grass and legume hay, alfalfa hay, and cereal grains under a system of sprinkler irrigation and water table control.

4. The well or other source is located ..... ft. and ..... ft. from the corner of .....

4205 feet N. 28 degrees 25 minutes W. from the initial point  
195 feet South of the North boundary and  
215 feet West of the East boundary.  
(If there is more than one well, each must be described. Use separate sheet if necessary)

The initial point being 21 feet N. and 38 feet W. from southeast cor.  
of Sec. 5 Twp. 24 S. R. 31 E. W. M.  
being within the SW 1/4 NE 1/4 of Sec. 5, Twp. 24 S., R. 31 E.

W. M., in the county of Harney

5. The About 2300 ft. of 6 inch pipe & sprinkler system to be ..... miles  
(Canal or pipe line)

in length, terminating in the See 4 above of Sec. ...., Twp. ....,  
(Smallest legal subdivision)

R. ...., W. M., the proposed location being shown throughout on the accompanying map.

6. The name of the well or other works is Section 5 Experimental Well

## DESCRIPTION OF WORKS

7. If the flow to be utilized is artesian, the works to be used for the control and conservation of the supply when not in use must be described.

None.

8. The development will consist of one well having a  
(Give number of wells, tunnels, etc.)

diameter of 12 inches and an estimated depth of 120 feet. It is estimated that 120  
(last 30 ft. are 30 thousands louvered)

feet of the well will require standard / STEEL casing. Depth to water table is estimated 5  
(Kind) (Feet)

static. 40 feet when pumping.

9. (a) Give dimensions at each point of canal where materially changed in size, stating miles from headgate. At headgate: width on top (at water line) ..... feet; width on bottom ..... feet; depth of water ..... feet; grade ..... feet fall per one thousand feet.

(b) At ..... miles from headgate: width on top (at water line) ..... feet; width on bottom ..... feet; depth of water ..... feet; grade ..... feet fall per one thousand feet.

(c) Length of pipe, ..... ft.; size at intake ..... in.; in size at ..... ft. from intake ..... in.; size at place of use ..... in.; difference in elevation between intake and place of use, ..... ft. Is grade uniform? ..... Estimated capacity, ..... sec. ft.

10. If pumps are to be used, give size and type ..... Deep well turbine pump.

Give horsepower and type of motor or engine to be used ..... 40 H.P. Electric

11. If the location of the well, tunnel, or other development work is less than one-fourth mile from a natural stream or stream channel, give the distance to the nearest point on each of such channels and the difference in elevation between the stream bed and the ground surface at the source of development

More than one mile from the West fork of the Silvies River.

12. Location of area to be irrigated, or place of use ..... HARNEY COUNTY

Township N. or S.	Range E. or W. of Willamette Meridian	Section	Forty-acre Tract	Number Acres To Be Irrigated
<del>24 S.</del>	<del>31 E.</del>	<del>5</del>	<del>Lot 3 NE 1/4 NW 1/4</del>	
			<del>SE 1/4 NW 1/4</del>	
			<del>NW 1/4 SE 1/4</del>	
<del>Total 60 Acres</del>				
24 S.	31 E.	5	Lot 3 NE 1/4 NW 1/4	11.6
24 S.	31 E.	5	Lot 2 NW 1/4 NE 1/4	5.4
24 S.	31 E.	5	SE 1/4 NW 1/4	10.7
24 S.	31 E.	5	SW 1/4 NE 1/4	31.2
24 S.	31 E.	5	NW 1/4 SE 1/4	.03
				58.93

(If more space required, attach separate sheet)

Character of soil ..... Clay loam.

Kind of crops raised ..... Grass and legume hay and pasture, alfalfa, and grain.

MUNICIPAL SUPPLY—

13. To supply the city of .....  
in ..... county, having a present population of .....  
and an estimated population of ..... in 19.....

ANSWER QUESTIONS 14, 15, 16, 17 AND 18 IN ALL CASES

- 14. Estimated cost of proposed works, \$ 23,500.00 including irrigation equipment.
- 15. Construction work will begin on or before September 1967.
- 16. Construction work will be completed on or before October 1968
- 17. The water will be completely applied to the proposed use on or before September 1969

18. If the ground water supply is supplemental to an existing water supply, identify any application for permit, permit, certificate or adjudicated right to appropriate water, made or held by the applicant. Term of the Courts Decree from the Silvies River adjudication  
priority date 1886.

*W. A. Sawyer*, Superintendent  
(Signature of applicant)

Remarks: This well will be used to begin research work in irrigation supplementary to wild flooding on native meadow land. This permit is requested to replace permit No. G-1009. The well covered by G-1009 is being abandoned because of a sand problem. The experimental program provided for by the old permit is being revised and expanded with the new well. The experimental area has been moved north about 1200 feet to facilitate fencing and to permit relocating the new well away from the old well with the hope that there would be less sand.

STATE OF OREGON, }  
County of Marion, } ss.

This is to certify that I have examined the foregoing application, together with the accompanying maps and data, and return the same for .....

In order to retain its priority, this application must be returned to the State Engineer, with corrections on or before ....., 19.....

WITNESS my hand this ..... day of ....., 19.....

.....  
STATE ENGINEER  
By .....  
ASSISTANT

STATE OF OREGON, }  
County of Marion, } ss.

PERMIT

This is to certify that I have examined the foregoing application and do hereby grant the same, SUBJECT TO EXISTING RIGHTS and the following limitations and conditions:

The right herein granted is limited to the amount of water which can be applied to beneficial use and shall not exceed 0.74 cubic feet per second measured at the point of diversion from the well or source of appropriation, or its equivalent in case of rotation with other water users, from a well

The use to which this water is to be applied is supplemental irrigation

If for irrigation, this appropriation shall be limited to 1/80th of one cubic foot per second or its equivalent for each acre irrigated and shall be further limited to a diversion of not to exceed 3 acre feet per acre for each acre irrigated during the irrigation season of each year; provided further that the right allowed herein shall be limited to any deficiency in the available supply of any prior right existing for the same land and shall not exceed the limitation allowed herein

and shall be subject to such reasonable rotation system as may be ordered by the proper state officer.

The well shall be cased as necessary in accordance with good practice and if the flow is artesian the works shall include proper capping and control valve to prevent the waste of ground water.

The works constructed shall include an air line and pressure gauge or an access port for measuring line, adequate to determine water level elevation in the well at all times.

The permittee shall install and maintain a weir, meter, or other suitable measuring device, and shall keep a complete record of the amount of ground water withdrawn.

The priority date of this permit is August 7, 1968

Actual construction work shall begin on or before March 19, 1970 and shall thereafter be prosecuted with reasonable diligence and be completed on or before October 1, 1970

Complete application of the water to the proposed use shall be made on or before October 1, 1971

WITNESS my hand this 19th day of March, 1969

*Chris L. Wheeler*  
STATE ENGINEER

Application No. G- 4542  
Permit No. G- G 4273

PERMIT  
TO APPROPRIATE THE GROUND  
WATERS OF THE STATE  
OF OREGON

This instrument was first received in the office of the State Engineer at Salem, Oregon, on the 7th day of August, 1968, at 1:00 o'clock P. M.

Returned to applicant:  
  
Approved: March 19, 1969

Recorded in book No. \_\_\_\_\_ of \_\_\_\_\_  
Ground Water Permits on page G 4273

CHRIS L. WHEELER  
STATE ENGINEER

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