Application for a Permit to Use

Ground Water



Oregon Water Resources Department 725 Summer Street NE, Suite A Salem, Oregon 97301-1266 (503) 986-0900 www.wrd.state.or.us

SECTION 1: APPLICANT INFORMATION AND SIGNATURE

MAPREY ERETT	¿ Cooperative Inc	PHONE (HM)
HONE (WK) 541 - 573 · 20	6/ 59/.589.58/2	ieneul FAX Mar 541.573.3930
DDRESS 1326 Hine	s Blud	
Burns	STATE ZIP P7720 E-MAIL Randy. 6	Shitaker & Harneyeledrin. Org
	- Autory . V	mar & marrier evarice.
Organization Information AAME	PHONE	FAX
DDRESS		CELL
TITY	STATE ZIP E-MAIL	
	L'IIIAL	
Agent Information – The agent is au	thorized to represent the applicant in all matters	relating to this application.
GENT/BUSINESS NAME Rondy Whiteken - 6	Seneral Manager 541.573.	7.061 FAX
DDRESS 1326 Hines	/	CELL
Burns	STATE ZIP E-MAIL	
Note: Attach multiple copies as ne		RECEIVE
sy my signature below I confirm	that I understand	SEP 2 4 2010
 I am asking to use water sp 	pecifically as described in this application. ion will be based on information provided i	
 I cannot use water legally Oregon law requires that a the use is exempt. Accepta If I get a permit, I must no If development of the wate The water use must be con 	until the Water Resources Department issued permit be issued before beginning construction of this application does not guarantee at waste water. Er use is not according to the terms of the penpatible with local comprehensive land-use sues a permit, I may have to stop using water.	ermit, the permit can be cancelled.
 I cannot use water legally Oregon law requires that a the use is exempt. Accepta If I get a permit, I must no If development of the wate The water use must be con Even if the Department iss to get water to which they 	until the Water Resources Department issued permit be issued before beginning construction of this application does not guarantee at waste water. Er use is not according to the terms of the penpatible with local comprehensive land-use sues a permit, I may have to stop using water.	etion of any proposed well, unless a permit will be issued. ermit, the permit can be cancelled. plans. er to allow senior water-right holders
 I cannot use water legally Oregon law requires that a the use is exempt. Accepta If I get a permit, I must no If development of the wate The water use must be con Even if the Department iss to get water to which they I (we) affirm that the information of the control o	until the Water Resources Department issued permit be issued before beginning construction of this application does not guarantee at waste water. Er use is not according to the terms of the penpatible with local comprehensive land-use sues a permit, I may have to stop using water are entitled. Matter Contained in this application is true. Rank I Whitefer	ermit, the permit can be cancelled. plans. er to allow senior water-right holders pland accurate. 9/15/2010
 I cannot use water legally Oregon law requires that a the use is exempt. Accepta If I get a permit, I must no If development of the wate The water use must be con Even if the Department iss to get water to which they 	until the Water Resources Department issued permit be issued before beginning construction of this application does not guarantee at waste water. For use is not according to the terms of the penpatible with local comprehensive land-use sues a permit, I may have to stop using water are entitled.	etion of any proposed well, unless a permit will be issued. ermit, the permit can be cancelled. plans. er to allow senior water-right holders
 I cannot use water legally Oregon law requires that a the use is exempt. Accepta If I get a permit, I must no If development of the wate The water use must be con Even if the Department iss to get water to which they I (we) affirm that the information of the control o	until the Water Resources Department issued permit be issued before beginning construction of this application does not guarantee at waste water. Er use is not according to the terms of the permatible with local comprehensive land-use sues a permit, I may have to stop using water are entitled. The print Name and title if applicable	ermit, the permit can be cancelled. plans. er to allow senior water-right holders pland accurate. 9/15/2010
 I cannot use water legally Oregon law requires that a the use is exempt. Accepta If I get a permit, I must no If development of the wate The water use must be con Even if the Department iss to get water to which they I (we) affirm that the informal properties of the informal p	until the Water Resources Department issued permit be issued before beginning construction of this application does not guarantee at waste water. Er use is not according to the terms of the perpatible with local comprehensive land-use sues a permit, I may have to stop using water are entitled. The print Name and title if applicable and the permit Name and title if applicable with Name and title with Name and title if applicable with Name and Name and Name and Name and Name an	ertion of any proposed well, unless a permit will be issued. ermit, the permit can be cancelled. plans. er to allow senior water-right holders are and accurate. 9/15/20/0 Date

SECTION 2: PROPERTY OWNERSHIP

Please indicate if you own all the lands associated with the project from which the water is to be diverted, conveyed, and used.

X Yes	
_	★ There are no encumbrances.
	☐ This land is encumbered by easements, rights of way, roads or other encumbrances.
☐ No	
	 ☐ I have a recorded easement or written authorization permitting access. ☐ I do not currently have written authorization or easement permitting access.
	Written authorization or an easement is not necessary, because the only affected lands I do not own are state-owned submersible lands, and this application is for irrigation and/or domestic use only (ORS 274.040).
	☐ Water is to be diverted, conveyed, and/or used only on federal lands.
List the	e names and mailing addresses of all affected landowners (attach additional sheets if necessary).

SECTION 3: WELL DEVELOPMENT

		IF LESS T	HAN 1 MILE:	
WELL NO.	NAME OF NEAREST SURFACE WATER	DISTANCE TO NEAREST SURFACE WATER	ELEVATION CHANGE BETWEEN NEAREST SURFACE WATER AND WELL HEAD	
Hurn 51698	West Fork Silvies River	1.7 m;	iott	
Harn 51699	West Fork Silvies River	1.7	10f+	
			DEC	EIVED
			nev	Read V ham &
			SEP	2 4 2010
				OURCES DEPT , OREGON

Please provide any information for your existing or proposed well(s) that you believe may be helpful in evaluating your application. For existing wells, describe any previous alteration(s) or repair(s) not documented in the attached well log or other materials (attach additional sheets if necessary).

The	se two	well s	are for	Geotherm	al Heat.	Domistic	weter
Service t	Fire Hydra	int is s	ron the a	Zuasi Manie	ipelity of H	nes. Plan	
	attache				<u> </u>		
				ري ک	Botum	Darlier	please

Revised 3/4/2010 Gr 17424

STATE OF OREGON WATER SUPPLY WELL REPORT (as required by ORS 537.765 & OAR 690-205-0210)

04-30-2010

WELL LABEL # L	102511
START CARD#	1009943

(1) LAND OWNER Owner Well I.D. Discharge	(9) LOCATION OF WELL (legal description)
First Name Last Name	
Company Hamey Electric Co op	Sec 23 NWSE 1/4 of the NWSE 1/4 Tax Lot 400 5400
Address 1326 Hines Blvd. City Burns State OR Zip 97720	Lot
97720	
(2) TYPE OF WORK New Well Deepening Conversion	Long o ' or DMS or DD C Street address of well Nearest address
Alteration (repair/recondition) Abandonment	
(3) DRILL METHOD	28910 Hwy 20, Hines, OR 97738
Rotary Air Rotary Mud Cable Auger Cable Mud Reverse Rotary Other	(10) STATIC WATER LEVEL Date SWL(psi) + SWL(ft)
	Date SWL(psi) + SWL(ft) Existing Well / Predeepening
(4) PROPOSED USE Domestic Irrigation Community	Completed Well 04-23-2010
☐ Industrial/ Commericial ☐ Livestock ☐ Dewatering ☐ Thermal ☐ Injection ☐ Other ☐	Flowing Artesian? Dry Hole?
	WATER BEARING ZONES Depth water was first found 22
(5) BORE HOLE CONSTRUCTION Special Standard (Attach copy) Depth of Completed Well 180.00 ft.	SWL Date From To Est Flow SWL(psi) + SWL(ft)
BORE HOLE SEAL sacks/	04-24-2010 22 180 50 2 14
Dia From To Material From To Amt lbs	
10 0 20 Bentonite 0 20 20 S	
8 20 180	(11) WELL LOC
	(11) WELL LOG Ground Elevation
How was seal placed: Method A B C D E Other poured dry and tam	Material From To topsoil 0 1
Backfill placed from ft. to ft. Material	Clay Brown 1 22
Filter pack from ft. to ft. Material Size	Sand Med Clay 22 35
Explosives used: Yes Type Amount	Gravel Med 35 50 Sand Med Cinders 50 65
(6) CASING/LINER	Gravel Med 65 80
Casing Liner Dia + From To Gauge Stl Plstc Wld Thrd	Sand Cinders 80 100 Sandstone 100 120
● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	Sandstone 100 120 Pumice Multicolored 120 170
	Rock Red RECEIVED 170 180
	navelven
	SEP 2 4 2010
Shoe Inside Outside Other Location of shoe(s)	JL1 25 48 2.010
Temp casing Yes Dia From To	WATER RESOURCES DEPT
(7) PERFORATIONS/SCREENS	SALEM, OREGON
Perforations Method	OALLW, OTLUGIV
Perf/S Casing/ Screen Scrn/slot Slot # of Tele/	
creen Liner Dia From To width length slots pipe size	Date Started 04-23-2010 Completed 04-24-2010
	(unbonded) Water Well Constructor Certification
	I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon water supply well
	construction standards. Materials used and information reported above are true to
	the best of my knowledge and belief.
(8) WELL TESTS: Minimum testing time is 1 hour	License Number Date
Pump Bailer Air Flowing Artesian	Electronically Filed Signed
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr) 50 180 1	(bonded) Water Well Constructor Certification
JV tov	I accept responsibility for the construction, deepening, alteration, or abandonment
	work performed on this well during the construction dates reported above. All work
Temperature 66 °F Lab analysis Yes By	performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.
Water quality concerns? Yes (describe below) From To Description Amount Units	
Total Tall	License Number 1424 Date 04-30-2010 Electronically Filed
	Signed TIMOTHY K RILEY (E-filed)
	Contact Info (optional)
ORIGINAL - WATER RESOURCES THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPART	

HARN 51698

STATE OF OREGON

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04-30-2010

	Page 1 of

WATER SUPPLY WELL REPORT	04-30-20
(as required by ORS 537.765 & OAR 690-205-0210)	

WELL LABEL # L	102510
START CARD #	1009928

(1) LAND OWNER Owner Well I.D. production well	
	(9) LOCATION OF WELL (legal description)
First Name Last Name	County Harney Twp 23.00 S N/S Range 30.00 E E/W WM
Company Harney Electric Co op Address 1326 Hines Blvd.	Sec 23 NWSE 1/4 of the NW SE 1/4 Tax Lot 400 5400
City Burns State OR Zip 97720	Tax Map Number Lot Lat "O DMS or DD
1 71720	
(2) TYPE OF WORK New Well Deepening Conversion	·
Alteration (repair/recondition) Abandonment	Street address of well Nearest address
(3) DRILL METHOD	28910 Hwy 20, Hines, OR 97738
Rotary Air Rotary Mud Cable Auger Cable Mud	(10) STATIC WATER LEVEL
Reverse Rotary Other	Date SWL(fsi) + SWL(ft)
(4) PROPOSED USE Domestic Irrigation Community	Existing Well / Predeepening Completed Well 04-21-2010 14 32.3
Industrial/ Commercial Livestock Dewatering	
Thermal Injection Other	WATER BEARING ZONES Depth water was first found 22
(5) BORE HOLE CONSTRUCTION Special Standard (Attach copy)	•
Depth of Completed Well 243.00 ft.	SWL Date From To Est Flow SWL(psi) + SWL(ft) 04-21-2010 22 243 50 14
BORE HOLE SEAL sacks/	
Dia From To Material From To Amt lbs	
10 0 20 Bentonite 0 20 S	
6 20 243	
	(11) WELL LOG Ground Elevation
How was seal placed: Method A B C D E	Material From To
Other poured dry and tam	Topsoil 0 1
Backfill placed from ft. to ft. Material	ClyBrown 1 22
Filter pack from ft. to ft. Material Size	Sand Med Clay 22 35 Gravel Med 35 50
Explosives used: Yes Type Amount	Graver Med 35 50 Sand Med Cinders 50 65
(6) CASING/LINER	Gravel Med 65 80
(6) CASING/LINER Casing Liner Dia + From To Gauge Stl Plstc Wld Thrd	Sand 80 101
	Sandstone 101 120
	Pumice Multicolored 120 170 Rock Red 170 243
	Rock Red 170 243
	RECEIVED
	A E Great And State of the second management
Shoe Inside Outside Other Location of shoe(s)	SEP 2 4 2010
Temp casing Yes Dia From To	3EF 2 12 E010
(7) PERFORATIONS/SCREENS	WATER RESOURCES DEPT
Perforations Method Material	
, <u> </u>	SALEM, OREGON
Perf/S Casing/Screen Scrn/slot Slot # of Tele/ creen Liner Dia From To width length slots pipe size	Date Started 04-21-2010 Completed 04-21-2010
	(unbonded) Water Well Constructor Certification
	I certify that the work I performed on the construction, deepening, alteration, or
	abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to
	the best of my knowledge and belief.
(8) WELL TESTS: Minimum testing time is 1 hour	License Number Date
	Electronically Filed
Pump Bailer Air Flowing Artesian Violated Polyming Designation (Properties of the Distriction (Properties of the Districtio	Signed
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr) 50 240 1	(bonded) Water Well Constructor Certification
240	I accept responsibility for the construction, deepening, alteration, or abandonment
	work performed on this well during the construction dates reported above. All work
Temperature 68 °F Lab analysis Yes By	performed during this time is in compliance with Oregon water supply well
Water quality concerns? Yes (describe below)	construction standards. This report is true to the best of my knowledge and belief.
From To Description Amount Units	License Number 1424 Date 04-30-2010
	Electronically Filed
	Signed TIMOTHY K RILEY (E-filed)
	Contact Info (optional)

allurian Source (aquifer), if known:

(each well will be evaluated at the maximum rate unless you indicate well-specific rates and annual Total maximum rate requested: 440 grm volumes in the table below).

Complete the table below. If this is an existing well, the following information may be found on the applicable well log. (If a well log is available, please submit it in addition to completing the table.) If this is a proposed well, or well-modification, consider consulting with a licensed well driller, geologist, or certified water right examiner.

G-17424

	ANNUAL VOLUME (ACRE-FEET)	~	7007					
JSE	WELL- SPECIFIC RATE (GPM)	Ingerri	4 X					
PROPOSED USE	TOTAL WELL DEPTH	262	08/					
PRO	SOURCE AQUIFER***							
	MOST RECENT STATIC WATER I.B.VEL & DATE (IN FEET)	17, 8/27/896	0 to 20' 17 '02 of 0					
	SEAL INTERVALS (IN FEET)	0 to 20'	,07 भ p					
	PERFORATED OR SCREENED INTERVALS (IN FEET)	Nowe	אייף קץ				τc	
	CASING INTERVALS (IN FEET)	3 to 103.	3 to 106'		FIVED	0 A 2010	4 11	SALEM, OREGON
	CASING	,,9	é		DECEIV	TLOTA GCDO	JLI MATER RES	SALEN
	PLOWING							
	WELL ID (WELL TAG) NO.* OR WELL LOG ID**	0152017	L: 1015 (1					
	EXISTING	X	×					
	PROPOSED							
	OWNER'S WELL NAMB OR NO.	148c464 6-102510	Production					

Licensed drillers are required to attach a Department-supplied Well Tag, with a unique Well ID or Well Tag Number to all new or newly altered wells. Landowners can request a Well ID for existing wells that do not have one. The Well ID is intended to serve as a unique identification number for each well.

A well log ID (e.g. MARI 1234) is assigned by the Department to each log in the agency's well log database. A separate well log is required for each subsequent alteration of the well. Source aquifer examples: Trouldale Formation, gravel and sand, altovium, basalt, bedrock, etc.

SECTION 4: WATER USE

USE	PERIOD OF USE	ANNUAL VOLUME (ACRE-FEET)
102511 geothernal	year around	700.0
wen		
Injection well/discharge	year around	100% of water from 102511 is injuded in this well
Exempt Uses: Please note that day for a single industrial or c	15,000 gallons per day for single or group decommercial purpose are exempt from permit	lomestic purposes and 5,000 gallons per ting requirements.
For irrigation use only: Please indicate the number of r	primary and supplemental acres to be irrigate	ed (must match man)
,	Supplemental: Acres	a (mass maters map).
<u> </u>	umber of the underlying primary water right	(s):
Indicate the maximum total num	mber of acre-feet you expect to use in an irri	gation season:
• If the use is municipal or o	quasi-municipal, attach Form M	
• If the use is domestic , indi	cate the number of households:	
• If the use is mining , descri	be what is being mined and the method(s) of	extraction:
CHOMEON E W. MYD SELV		
SECTION 5: WATER MANA	AGEMENT	
A. Diversion and Conveyance What equipment will you u	se to pump water from your well(s)?	
才 Pump (give horsepower	and type): 5 hp varriage for	quency drive
☐ Other means (describe):		·
Provide a description of the works and conveyance of w	proposed means of diversion, construction, vater. <u>Worder from production</u> we 2" line up then injected	and operation of the diversion
exchange wa a	2" line a then injected	in to discharge well
B. Application Method What equipment and metho	od of application will be used? (e.g., drip, wh	neel line, high-pressure sprinkler)
		SEP 2 4 2010
the discharge of contaminat	ount of water requested is needed and measured water diverted; prevent damage to aquation the water to a surface stream; prevent advers	• •

Revised 3/4/2010

Ground Water/6

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SECTION 6: STORAGE OF GROUND WATER IN A RESERVOIR

this section for each reservoir).	oir, complete this section (if more than one reservoir, reproduce
Reservoir name:	Acreage inundated by reservoir:
Use(s):	
Volume of Reservoir (acre-feet): Dam	n height (feet, if excavated, write "zero"):
Note: If the dam height is greater than or equal to 10.0 engineered plans and specifications must be approved	0' above land surface AND the reservoir will store 9.2 acre feet or more, d prior to storage of water.
SECTION 7: USE OF STORED GROUND WA	ATER FROM THE RESERVOIR
If you would like to use stored ground water from reproduce this section for each reservoir).	the reservoir, complete this section (if more than one reservoir,
Annual volume (acre-feet):	
USE OF STORED GROUND WATER	PERIOD OF USE
SECTION 8: PROJECT SCHEDULE	
	n 4,2010
Date construction will be completed:Ac	wil 4 20H1
Date beneficial water use will begin:	
SECTION 9: REMARKS	
Use this space to clarify any information you have See allached Sheet	provided in the application (attach additional sheets if necessary).
	RECEIVED
	SEP 2 4 2010
	WATER RESOURCES D SALEM, OREGON

G-17424

For Local Government Use Only

The following section must be completed by a planning official from each county and city listed unless the project will be located entirely within the city limits. In that case, only the city planning agency must complete this form. This deals only with the local land-use plan. Do not include approval for activities such as building or grading permits.

Please check the appropriate box be	<u>low and provide the requested info</u>	<u>rmation</u>	
Land uses to be served by the proposed water your comprehensive plan. Cite applicable on	r uses (including proposed construction) are a dinance section(s):	llowed outrigh	t or are not regulated by
	mentation of applicable land-use approvals with mpanying findings are sufficient.) If approvals	hich have alrea	dy been obtained.
Type of Land-Use Approval Needed (e.g., plan amendments, rezones, conditional-use permits, etc.)	Cite Most Significant, Applicable Plan Policies & Ordinance Section References	Lan	d-Use Approval:
		☐ Obtained ☐ Denied	☐ Being Pursued ☐ Not Being Pursued
		☐ Obtained ☐ Denied	☐ Being Pursued ☐ Not Being Pursued
		☐ Obtained ☐ Denied	☐ Being Pursued ☐ Not Being Pursued
		Obtained Denied	☐ Being Pursued ☐ Not Being Pursued
		☐ Obtained ☐ Denied	☐ Being Pursued ☐ Not Being Pursued
	·		SEP 2 4 20 0 WATER RESOURCES DEF
Name: Ramona Hofmar	Title: Plannin	19 Con	
Signature: Ramona Hofma	Phone: 541-573	- -2251	n. Secretary Date: 9-17-10
Government Entity: <u>City</u> of H	ines		
Note to local government representative: Pleasign the receipt, you will have 30 days from the Form or WRD may presume the land use associated	Water Resources Department's notice date to	return the comi	pleted Land Use Information comprehensive plans.
Receipt fo	or Request for Land Use Informa	ation	
Applicant name:			
City or County:	Staff contact	:	
Signature:	Phone:		Date:

Land Use Information Form - Page 3 of 3

Revised 2/8/2010

WR / FS

Land Use Information Form



Oregon Water Resources Department 725 Summer Street NE, Suite A Salem, Oregon 97301-1266 (503) 986-0900 www.wrd.state.or.us

Applicant	1-1	arney	First	(copast.	ve Inc		Last		
			-6 His		Bul			_	
Bur	City	w m		State C	ATZO D	Oaytime Phone	c: <u>541</u> 4	573	2061
A. Land	and Loca	ation							
and/or used	d or develop	ped. Appli	cants for mur	nicipal use, or	here water will be dive r irrigation uses within on requested below.				
Township	Runge	Section	1/4 1/4	Tax Lot#	Plan Designation (e.g., Rural Residential/RR-5)		Water to be:		Proposed Land Use:
23 5	30 E	23	SE SE	5400	commercial	Diverted	Conveyed	Used	commercial
				contrally	2008 - 147	☐ Diverted	Conveyed	☐ Used	
					See CS# 122	Diverted	Conveyed	Used	
						Diverted	Conveyed	Used	
Permit Limite	to Use or St d Water Use	ore Water License	Allocat	Resources D Right Transfer ion of Conserv	Permi	t Amendment o	or Ground Wat	er Registra	tion Modification
Source of w	vater: 🗌 R	eservoir/Po	_	ound Water	Surface Water (name)	-		
Estimated c	quantity of v	water need	ed:	40	cubic feet per s	second E g	gallons per min	ute 🗌 a	cre-feet
	e of water:	☐ Irriga ☐ Muni		Commercial Quasi-Munici	Industrial pal Instream	☐ Dome ☑ Other	Geo therm	househo	ie hert
Briefly desc	cribe:	0.	1.	11 0 0	, Q J1 1	U. + 2/1	1. /	Hil D.	
11		Buegar	Tion we	il samp	ad through	Trail Ope	menger /	Li	amp and
ity allina	0	see	21. 1	الماله ٥٠	willing was	ici pro	nines da	THE C	coust - municip
11000			a THE CH	CO SURTS					(5
				on Form cann	not be completed while ge and include it with t	e you wait, pl	ease have a lo	ocal gover	
Department		-			om of Page 3. →		RECE		

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SEP 2 4 2010

WATER RESOURCES DEPT

SALEM, OREGON

Revised 2/8/2010

See bottom of Page 3. \rightarrow

LALL IN	<u></u>	
1326 HINES		
BURNS, OR	97720	
Escrow No.	BU0018658	
Title No.	0018658	

SWD

County Clerk's Records of Harney County, Oregon.

Maria Iturriaga, County Clerk

By Deputy

STATUTORY WARRANTY DEED

MALHEUR PARTNERSHIP, Grantor(s) hereby convey and warrant to HARNEY ELECTRIC COOPERATIVE, INC., Grantee(s) the following described real property in the County of HARNEY and State of Oregon free of encumbrances except as specifically set forth herein:

A parcel of land situated in the SE1/4SE1/4 of Sec. 23 and the SW1/4SW1/4 of Sec. 24, Twp. 23 S., R. 30 E., W.M., City of Hines, Harney County, Oregon, and more particularly described as follows:

Description covers two Parcels Both wells Production and Injustice.

Beginning at the South corner common to said Sections 23 and 24; thence N, 89°28' W. along the South line of said Sec. 23 and the North line of Lottery Lane County Road, 476.1 feet; thence N. 00°04' W. 355.02 feet; thence S. 89°28' E. 476.1 feet to the section line common to said Sections 23 and 24; thence N. 00°04' W. along the said section line common to Sections 23 and 24, 352.84 feet, more or less, to the South boundary of Commercial Avenue; thence along the said South boundary of Commercial Avenue on a 356.01 foot curve to the left (long chord bears N. 74°01'35" E. 51.99 feet) an arc distance of 52.03 feet; thence S. 00°04' E. 152.95 feet; thence S. 89°28' E. 444.36 feet, more or less, to the Northwesterly boundary of the railroad right of way as described in Book 32, Page 487, Deed Records; thence Southwesterly along the said Northwesterly boundary of the railroad right of way to the said North line of Lottery Lane County Road; thence Westerly along the said North line of Lottery Lane, 70 feet, more or less, to the point of beginning.

CODE # 30-1 ACCT. # 30651 MAP# 23S 30E 23DD TL5400 CODE # 30-1 ACCT. # 30654 MAP# 23S 30E 24CC TL400

The above-described property is free of encumbrances except all those items of record, if any, as of the date of this deed and those shown below, if any:

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Harney Electric Cooperative, Inc.

Geothermal Well

Intended Use

Harney Electric had two wells drilled for the purpose of providing heating and cooling to the office and shop. The System is closed. Water is drawn from the production well ran through a heat exchanger, and or a heat pump and then injected into the injection well. The heat exchanger will provide heat to a fluid used in the radiant floor heat tubes for the shop. The heat pump will be utilized in the office building and mezzine area of the shop.

The two wells are 189 feet apart, 6 inch steel casing.

Both are on HEC's property.

The production well will have a variable speed motor, flow rates vary:

Well depth 180ft., cased 106 ft., standing water level 14 ft.

Base temperature of 66 deg. F. at bottom of hole

Winter

maximum rate of 113 gpm

minimum rate of zero

Maximum temperature drop of 13 deg F. or an injection temp of 55 deg F.

Summer:

Maximum flow rate of 75 gpm

minimum rate of zero

maximum temperature rise of 7 deg F

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WATER RESOURCES DEPT

SALEM, OREGON

Flow rates vary due to the heating and or cooling demands of the system.

The Injection well:

Well depth 243ft., cased 109 ft., standing water level 14 ft.

Base temperature of 68 deg. F. at bottom of hole

STATE OF OREGON EXEMPT USE WELL MAP

(as required by ORS 537.545 & OAR 690.190)
This map is supplemental to the WATER SUPPLY WELL REPORT

Oregon Water Resources Department

725 Summer St NE, Salem, OR 97301 (503)986-0900



LOCATION OF WELL

Latitude: 43.557178 Longitude: -119.081393

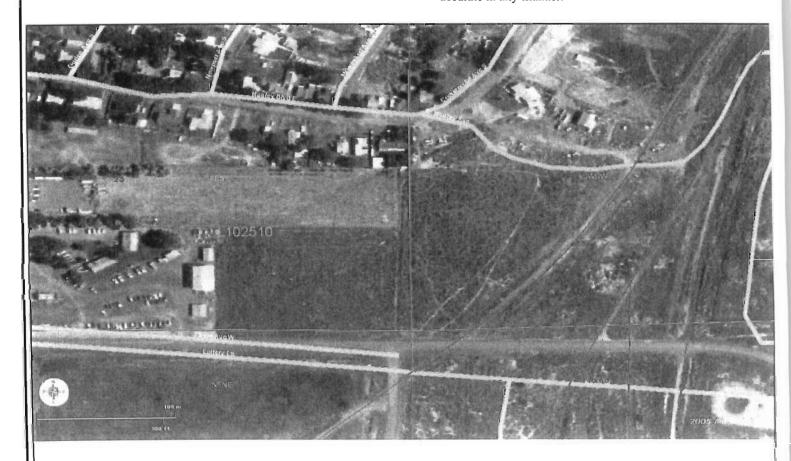
Datum: WGS84

Township/Range/Section/Quarter-Quarter Section: 23S 30E 23 SESE

Address of Well: 28910 HWY 20, HINES, OR 97738

Well Label #: L102510 Well Log: HARN 51698 Printed: Jun 08, 2010

DISCLAIMER: This map is intended to represent the approximate location of the exempt use well provided by the land owner. It is not intended to be construed as survey accurate in any manner.



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WATER RESOURCES DEPT

SALEM, OREGON



STATE OF OREGON WATER RESOURCES DEPARTMENT North Mall Office Building

725 Summer Street NE, Suite A Salem, OR 97301-1266

Contact: Exempt Use Well Program Coordinator at (503)986-0861 (503)986-0902(fax)

Invoice #: 3064

Date:

4/30/2010

HARNEY ELECTRIC CO OP 1326 HINES BLVD. BURNS, OR 97720

Well Information:

Well Tag: L- 102511

Well Log #: HARN

Exempt Use Recording Fee

51699

Startcard #: 1009943

Completed:

4/24/2010

Completed depth: 180

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TRSQQ:

23 S

30 E

23 NWNW 5 5 5 E

SEP 2 4 2010

Street of Well: 28910 HWY 20, HINES, OR 97738

WATER RESOURCES DE SALEM_OREGON

Date Landowner Map Received:

Total Due:

\$300.00

OR

Provide a Water Right Permit or Certificate number and L	egal
description of the well listed on the Permit or Certificate.	
Permit / Certificate Number:	

Legal Description:

(ie. 530 feet North and 1370 feet East, both from the SW Corner of Section 18, Township 6 South, Range 1 East, W.M.)

Terms: Due in 30 days

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Internal Office Use Only

HARNEY ELECTRIC

1083 TREASURY

OBJECT 0260

PCA 45148

STATE OF OREGON EXEMPT USE WELL MAP

(as required by ORS 537.545 & OAR 690.190)
This map is supplemental to the WATER SUPPLY WELL REPORT

Oregon Water Resources Départment

725 Summer St NE, Salem, OR 97301 (503)986-0900



LOCATION OF WELL

Latitude: 43.556616 Longitude: -119.081299

Datum: WGS84

Township/Range/Section/Quarter-Quarter Section: 23S 30E 23 SESE

Address of Well: 28910 HWY 20, HINES, OR 97738

Well Label #: L102511 Well Log: HARN 51699 Printed: Jun 08, 2010

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WATER RESOURCES DEPT SALEM, OREGON