

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

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WATER RESOURCES DEPT
SALEM, OREGON

SECTION 1: APPLICANT INFORMATION AND SIGNATURE

Applicant Information

NAME CHRISTOPHER JAMES RAY		PHONE (HM) 541-446-3265	
PHONE (WK) 541-446-3265	CELL 208-880-6344	FAX	
ADDRESS 6144 MOLTHAN RD			
CITY IRONSIDE	STATE OR	ZIP 97908	E-MAIL CHRISRAY@RAYBROTHERS.NET

Organization Information

NAME		PHONE	FAX
ADDRESS			CELL
CITY	STATE	ZIP	E-MAIL

Agent Information – The agent is authorized to represent the applicant in all matters relating to this application.

AGENT / BUSINESS NAME NANCY L RORICK		PHONE 541-519-3644	FAX
ADDRESS 645 L LOOP			CELL
CITY BAKER CITY	STATE OR	ZIP 97814	E-MAIL NROICK@YAHOO.COM

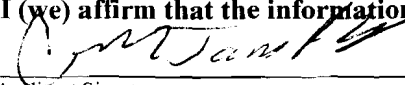
Note: Attach multiple copies as needed

By my signature below I confirm that I understand:

- I am asking to use water specifically as described in this application.
- Evaluation of this application will be based on information provided in the application.
- I cannot use water legally until the Water Resources Department issues a permit.
- Oregon law requires that a permit be issued before beginning construction of any proposed well, unless the use is exempt. Acceptance of this application does not guarantee a permit will be issued.
- If I get a permit, I must not waste water.
- If development of the water use is not according to the terms of the permit, the permit can be cancelled.
- The water use must be compatible with local comprehensive land-use plans.
- Even if the Department issues a permit, I may have to stop using water to allow senior water-right holders to get water to which they are entitled.



I (we) affirm that the information contained in this application is true and accurate.


Applicant Signature

Christopher James Ray
Print Name and title if applicable

11/9/2011
Date

Applicant Signature

Print Name and title if applicable

Date

For Department Use		
App. No. <u>G-17509</u>	Permit No. _____	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.

- 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 names and mailing addresses of all affected landowners (*attach additional sheets if necessary*).

SECTION 3: WELL DEVELOPMENT

WELL NO.	NAME OF NEAREST SURFACE WATER	IF LESS THAN 1 MILE:	
		DISTANCE TO NEAREST SURFACE WATER	ELEVATION CHANGE BETWEEN NEAREST SURFACE WATER AND WELL HEAD
No. 3	Gum Creek	0.5 miles	Elevation of Gum Creek is 50 feet higher than well 3.
No. 4	Willow Creek	0.5 miles	Elevation of Willow Creek is 70 feet lower than well 4.

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 wells are numbered 3 and 4 to be consistent with the numbering used in T8876. Riverside Inc. completed a pump test on the two wells on May 11, 2010. These two wells are already used to irrigate 161 irrigation acres via three irrigation pivots. The purpose of this permit application is to allow the water user to irrigate an additional 8.4 acres by attaching an end gun sprinkler to one of the pivots.

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SALEM, OREGON

SECTION 3: WELL DEVELOPMENT, CONTINUED

Source (aquifer), if known: sand and gravel

Total maximum rate requested: 906 gpm (each well will be evaluated at the maximum rate unless you indicate well-specific rates and annual 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.

4-1-2009

OWNER'S WELL NAME OR NO.	PROPOSED	EXISTING	WELL ID (WELL TAG) NO.* OR WELL LOG ID**	FLOWING ARTESIAN	CASING DIAMETER	CASING INTERVALS (IN FEET)	PERFORATED OR SCREENED INTERVALS (IN FEET)	SEAL INTERVALS (IN FEET)	MOST RECENT STATIC WATER LEVEL & DATE (IN FEET)	PROPOSED USE			
										SOURCE AQUIFER***	TOTAL WELL DEPTH	WELL-SPECIFIC RATE (GPM)	ANNUAL VOLUME (ACRE-FEET)
well 3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	malh 223 no well tag	<input type="checkbox"/>	12 inches	0 to 317 feet	304 to 728 feet	surface to 18 feet	124 feet on 5-11-2010	fine gravel and black sand	815 feet	545	
well 4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	malh 216 no well tag	<input type="checkbox"/>	12 inches	+1 to 180 feet	none installed according to well log	surface to 18 feet	70 feet on 5-11-2010	gravel and sand	500 feet	361	25.2 AF
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>									
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>									
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>									
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>									
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>									

* 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: Troutdale Formation, gravel and sand, alluvium, basalt, bedrock, etc.

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SECTION 4: WATER USE

USE	PERIOD OF USE	ANNUAL VOLUME (ACRE-FEET)
irrigation	March 1 - December 1	3.0 acre feet per acre per year or a total of 25.2 acre feet

Exempt Uses: Please note that 15,000 gallons per day for single or group **domestic** purposes and 5,000 gallons per day for a single **industrial or commercial** purpose are exempt from permitting requirements.

For irrigation use only:

Please indicate the number of primary and supplemental acres to be irrigated (*must match map*).

Primary: 8.4 Acres Supplemental: Acres

List the Permit or Certificate number of the underlying primary water right(s):

Indicate the maximum total number of acre-feet you expect to use in an irrigation season: 25.2 acre feet

- If the use is **municipal or quasi-municipal**, attach **Form M**
- If the use is **domestic**, indicate the number of households: n/a
If the use is **mining**, describe what is being mined and the method(s) of extraction: n/a

SECTION 5: WATER MANAGEMENT

A. Diversion and Conveyance

What equipment will you use to pump water from your well(s)?

Pump (give horsepower and type): Well 3: turbine pump with a 125 HP motor manufactured by U.S. Electric. Well 4: Gould turbine pump with a 75 HP motor manufactured by Newman.

Other means (describe):

Provide a description of the proposed means of diversion, construction, and operation of the diversion works and conveyance of water. Water is pumped from well 4 via an 8-inch-diameter, 835 foot long PVC pipe to a manifold at well 3 where it is mixed with water from well 3. From well 3, water flows south via a 10-inch-diameter, 1715-foot-long PVC pipe to the irrigation pivot. Water from these same two wells is also used to operate two irrigation pivots to the west (T8876).

B. Application Method

What equipment and method of application will be used? (e.g., drip, wheel line, high-pressure sprinkler)
Irrigation pivot

C. Conservation

Please describe why the amount of water requested is needed and measures you propose to: prevent waste; measure the amount of water diverted; prevent damage to aquatic life and riparian habitat; prevent the discharge of contaminated water to a surface stream; prevent adverse impact to public uses of affected surface waters.

Water will be applied to the crops when needed, and will be based on soil moisture testing. The most water efficient method of irrigation will be used to for the crop being irrigated.

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SECTION 6: STORAGE OF GROUND WATER IN A RESERVOIR

If you would like to store ground water in a reservoir, complete this section (if more than one reservoir, reproduce this section for each reservoir).

Reservoir name: n/a Acreage inundated by reservoir: n/a

Use(s): n/a

Volume of Reservoir (acre-feet): n/a Dam height (feet, if excavated, write "zero"): n/a

Note: If the dam height is greater than or equal to 10.0' above land surface AND the reservoir will store 9.2 acre feet or more, engineered plans and specifications must be approved prior to storage of water.

SECTION 7: USE OF STORED GROUND WATER FROM THE RESERVOIR

If you would like to use stored ground water from the reservoir, complete this section (if more than one reservoir, reproduce this section for each reservoir).

Annual volume (acre-feet): n/a

USE OF STORED GROUND WATER	PERIOD OF USE
n/a	

SECTION 8: PROJECT SCHEDULE

Date construction will begin: February 1, 2012

Date construction will be completed: March 1, 2012

Date beneficial water use will begin: March 1, 2012

SECTION 9: REMARKS

Use this space to clarify any information you have provided in the application (attach additional sheets if necessary).

The existing wells are used to provide water to three irrigation pivots (T8876). The purpose of this permit application is to allow the water user to add a end gun sprinkler to extend the reach of one irrigation pivot by 80 feet. The total area that would irrigated by adding the end gun sprinkler is 8.4 acres.

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WATER RESOURCES DEPT
SALEM, OREGON

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: Christopher James
First

Ray
Last

Mailing Address: 6144 Molthan RD

Ironside
City

OR
State

97908
Zip

Daytime Phone: 541 446 3265

A. Land and Location

Please include the following information for all tax lots where water will be diverted (taken from its source), conveyed (transported), and/or used or developed. Applicants for municipal use, or irrigation uses within irrigation districts may substitute existing and proposed service-area boundaries for the tax-lot information requested below.

Township	Range	Section	¼ ¼	Tax Lot #	Plan Designation (e.g., Rural Residential/RR-5)	Water to be:			Proposed Land Use:
16S	43E	5	SW NW SE NW NE SW	16S 43E 3800	EFU	<input checked="" type="checkbox"/> Diverted	<input checked="" type="checkbox"/> Conveyed	<input checked="" type="checkbox"/> Used	IR
16S	43E	6	SE NE	16S 43E 3800	EFU	<input checked="" type="checkbox"/> Diverted	<input checked="" type="checkbox"/> Conveyed	<input checked="" type="checkbox"/> Used	IR

List all counties and cities where water is proposed to be diverted, conveyed, and/or used or developed:

Malheur County

B. Description of Proposed Use

Type of application to be filed with the Water Resources Department:

- Permit to Use or Store Water
 Water Right Transfer
 Permit Amendment or Ground Water Registration Modification
 Limited Water Use License
 Allocation of Conserved Water
 Exchange of Water

Source of water: Reservoir/Pond
 Ground Water
 Surface Water (name) _____

Estimated quantity of water needed: 0.11
 cubic feet per second
 gallons per minute
 acre-feet

Intended use of water: Irrigation
 Commercial
 Industrial
 Domestic for _____ household(s)
 Municipal
 Quasi-Municipal
 Instream
 Other _____

Briefly describe:

Note to applicant: If the Land Use Information Form cannot be completed while you wait, please have a local government representative sign the receipt at the bottom of the next page and include it with the application filed with the Water Resources Department.

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See bottom of Page 3. →

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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 below and provide the requested information

- Land uses to be served by the proposed water uses (including proposed construction) are allowed outright or are not regulated by your comprehensive plan. Cite applicable ordinance section(s): MCC Title 6.
- Land uses to be served by the proposed water uses (including proposed construction) involve discretionary land-use approvals as listed in the table below. (Please attach documentation of applicable land-use approvals which have already been obtained. Record of Action/land-use decision and accompanying findings are sufficient.) **If approvals have been obtained but all appeal periods have not ended, check "Being pursued."**

Type of Land-Use Approval Needed (e.g., plan amendments, rezones, conditional-use permits, etc.)	Cite Most Significant, Applicable Plan Policies & Ordinance Section References	Land-Use Approval:	
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued

Local governments are invited to express special land-use concerns or make recommendations to the Water Resources Department regarding this proposed use of water below, or on a separate sheet.

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WATER RESOURCES DEPT
SALEM, OREGON

Name: Bill Lawrence Title: Asst. Planning Director Phone: 541-473-5185 Date: November 29, 2011
 Signature: Bill Lawrence
 Government Entity: Malheur County

Note to local government representative: Please complete this form or sign the receipt below and return it to the applicant. If you sign the receipt, you will have 30 days from the Water Resources Department's notice date to return the completed Land Use Information Form or WRD may presume the land use associated with the proposed use of water is compatible with local comprehensive plans.

Receipt for Request for Land Use Information

Applicant name: _____
 City or County: _____ Staff contact: _____
 Signature: _____ Phone: _____ Date: _____

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report
are to be filed with the

WATER RESOURCES DEPARTMENT,
SALEM, OREGON 97310
within 30 days from the date
of well completion.

WATER WELL REPORT

STATE OF OREGON

(Please type or print)

(Do not write above this line)

Well 3

State Well No.

State Permit No.

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JAN 23 1980
WATER RESOURCES DEPT
SALEM, OREGON

Math 223
Math 223

1165/43E-6ac

(1) OWNER:

Name **Tom Hopper**
Address **P.O. Box 92**
Jawison, Oregon 97909

(2) TYPE OF WORK (check):

New Well Deepening Reconditioning Abandon
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary Cable
Driven Jetted
Bored

(4) PROPOSED USE (check):

Domestic Industrial Municipal
Irrigation Test Well Other

(5) CASING INSTALLED:

Threaded Welded
12" Diam. from 0 ft. to 317 ft. Gage 312
" Diam. from " ft. to " ft. Gage "
" Diam. from " ft. to " ft. Gage "

PERFORATIONS:

Perforated? Yes No.

Type of perforator used

Size of perforations in. by in.
perforations from " ft. to " ft.
perforations from " ft. to " ft.
perforations from " ft. to " ft.

(7) SCREENS:

Well screen installed? Yes No

Manufacturer's Name **Southwest Pipe**
Type **188 Wall Liner** Model No. **304**
Diam. **10** Slot size **1/8x1/4** Set from **304** ft. to **728** ft.
Diam. " Slot size " Set from " ft. to " ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? Yes No If yes, by whom? **Layne of Idaho**
Y. **1140** gal./min. with **181** ft. drawdown after **2** hrs.
824 " " **101** " " **6** "

Bailer test gal./min. with ft. drawdown after hrs.

Artesian flow g.p.m.

Temperature of water **67** Depth artesian flow encountered " ft.

(9) CONSTRUCTION:

Well seal—Material used **Cement**
Well sealed from land surface to **18** ft.
Diameter of well bore to bottom of seal **16** in.
Diameter of well bore below seal **12** in. to **728'**
Number of sacks of cement used in well seal **25** sacks
How was cement grout placed? **Grout pump**
8" Bore 728' to 815'

Was a drive shoe used? Yes No Plugs " Size: location " ft.

Did any strata contain unusable water? Yes No

Type of water? depth of strata

Method of sealing strata off

Was well gravel packed? Yes No Size of gravel:

Gravel placed from " ft. to **DEC 0 2 2011**

(10) LOCATION OF WELL:

County **Malheur** Driller's well number **79-17**
SE 1/4 NE 1/4 Section 6 T. 16S R. 43E W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.

Depth at which water was first found **125** ft.
Static level **80** ft. below land surface. Date
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing **12 & 8**

Depth drilled **815** ft. Depth of completed well **815** ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
Top soil	0	3	
Clay, brown	3	125	
Gravel, medium, 1st water	125		80
Gravel, medium	125	128	
Clay, brown, sandy, fine	128	225	80
Clay, blue	225	315	80
Sand, brown, fine	315	330	80
Clay, blue	330	391	80
Clay, blue, sandy	391	590	80
Clay, blue, sandy	590	615	80
Clay, fine, gravel, blue-gray	615	695	80
Clay, blue, hard	695	715	80
Sand, fine, black	715	720	84
Clay, blue, hard	720	775	84
Gravel, fine, sand, black, water-bearing	775	815	99

Work started **Oct. 10 1979** Completed **19**

Date well drilling machine moved off of well **Oct 22 1979**

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] **Shirley H. Huppell** Date **Oct 22 1979**
(Drilling Machine Operator)

Drilling Machine Operator's License No. **90**

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name **PIONEER WATER DEVELOPMENT, INC.**
(Person, firm or corporation) (Type or print)

Address **Rt. 3 Box 493 Ontario, Ore. 97914**

[Signed] **Shirley Huppell**
(Water Well Contractor)

Contractor's License No. **396** Date **Oct 22 1979**

G-17509

WATER RESOURCES DEPT
SALEM, OREGON

(USE ADDITIONAL SHEETS IF NECESSARY)

SP-48026-119

WATER WELL REPORT
STATE OF OREGON

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JUL 24 1985

WATER RESOURCES DEPT
SALEM, OREGON

Well 4

State Well No. *165/43E-56c*

State Permit No.

(1) OWNER:

Name *TOM Happet*
Address
City *JAMIESON* State *OR*

(2) TYPE OF WORK (check):

New Well Deepening Reconditioning Abandon

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary Air Driven Domestic Industrial Municipal
Rotary Mud Dug Irrigation Test Well Other
 Bored Thermal: Withdrawal ReInjection

(4) PROPOSED USE (check):

(5) CASING INSTALLED: Steel Plastic
Threaded Welded

12" Diam. from *7 1/2* ft. to *180* ft. Gauge *250*
" Diam. from ft. to ft. Gauge

LINER INSTALLED:

" Diam. from ft. to ft. Gauge

(6) PERFORATIONS:

Perforated? Yes No

Type of perforator used

Size of perforations in. by in.

perforations from ft. to ft.

perforations from ft. to ft.

perforations from ft. to ft.

(7) SCREENS:

Well screen installed? Yes No

Manufacturer's Name

Type Model No.

Diam. Slot Size Set from ft. to ft.

Diam. Slot Size Set from ft. to ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level

Is a pump test made? Yes No If yes, by whom? *DRILLER*

Flow: *750* gal./min. with *120* ft. drawdown after *3* hrs.

Air test gal./min. with drill stem at ft. hrs.

Bailer test gal./min. with ft. drawdown after hrs.

Artesian flow g.p.m.

Temperature of water *68* Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Special standards: Yes No

Well seal—Material used *PORTLAND CEMENT*

Well sealed from land surface to *18* ft.

Diameter of well bore to bottom of seal *16* in.

Diameter of well bore below seal *12* in.

Number of sacks of cement used in well seal sacks

How was cement grout placed? *DRIFT PUMP*

Was pump installed? *yes* Type *TURBINE 75* Depth *250* ft.

Was a drive shoe used? Yes No Plugs Size: location ft.

Did any strata contain unusable water? Yes No

Type of Water? depth of strata

Method of sealing strata off

Was well gravel packed? Yes No Size of gravel:

Gravel placed from ft. to ft.

(10) LOCATION OF WELL:

County *MALHEUR* Driller's well number
SW 1/4 NW 1/4 Section 5 T. 165 R. 43E W.M.
Tax Lot # Lot Blk Subdivision

Address at well location:

(11) WATER LEVEL: Completed well.

Depth at which water was first found *90* ft.

Static level *65* ft. below land surface. Date *5-10-85*

Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing *12*

Depth drilled *500* ft. Depth of completed well *290* ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
SOIL	0	3	
Caliche	3	5	
BROWN CLAY	5	40	
BL & BLK. Med gravel	40	45	
BR. CLAY	45	90	
BL & BLK. gravel Med. W.B.	90	95	65
BR. CLAY	95	160	65
BR. SAND (FINE)	160	175	65
BR. CLAY (Hard)	175	250	110
BL & BLK SAND (FINE) W.B.	250	295	110
gray gln clay	295	500	110

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SALEM, OREGON

Work started *5-2* 19*85* Completed *7-12* 19*85*

Date well drilling machine moved off of well *7-15* 19*85*

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

(Signed) Date 19.....

(Drilling Machine Operator)

Drilling Machine Operator's License No.

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name *HERBERT BOWMAN* (Type or print)

Address *PO Box 41 JAMIESON OR*

(Signed) *Herbert H. Bowman* (Water Well Contractor)

Contractor's License No. *1308* Date *7-21* 19*85*

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the:

WATER RESOURCES DEPARTMENT,
SALEM, OREGON 97310
within 30 days from the date of well completion.

SP*12858-690

G-750P