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Application for Permit Amendment Part 1 of 5 – Minimum Requirements Checklist



Oregon Water Resources Department 725 Summer Street NE, Suite A Salem, Oregon 97301-1266 (503) 986-0900 www.oregon.gov/OWRD

This permit amendment application will be returned if Parts 1 through 5 and all required attachments are not completed and included.

Check all items included with this application. (N/A = Not Applicable)

- Part 1 – Completed Minimum Requirements Checklist.
Part 2 – Completed Application Map Checklist.
Part 3 – Application Fee, payable by check to the Oregon Water Resources Department, and completed Fee Worksheet, page 3. Try the new online fee calculator at: http://apps.wrd.state.or.us/apps/misc/wrd_fee_calculator.
Part 4 – Completed Applicant Information and Signature.
Part 5 – Information about Permits to be Amended: Number of permits to be amended: 1 List the Permits here: S-36515 (see Attachment A) Please include a separate Part 5 for each permit. (See instructions on page 6)
Completed Permit Amendment Application Map (Does not have to be prepared by a Certified Water Right Examiner). See Attachment B.
Request for Assignment Form and statutory fee. The request for assignment form has to be completed if the applicant is not the permit holder of record and needs to be assigned to the permit; or the landowner of the proposed place of use is not the permit holder of record and needs to be assigned to the permit (the Request for Assignment Form is available online at https://www.oregon.gov/OWRD/Forms/Pages/default.aspx). Assignment is not needed if the applicant is the permit holder of record.
Affidavit(s) of Consent are required from all permit holder(s) of record if the permit is not assigned to the applicant or other permit holders of record that are not listed as applicants.
Oregon Water Resources Department’s Land Use Information Form with approval and signature (or signed land use form receipt stub) from each local land use authority in which water is to be diverted, conveyed, and/or used. Not required if water is to be diverted, conveyed, and/or used only on federal lands or if all of the following apply: a) a change in place of use only, b) no structural changes, c) the use of water is for irrigation only, and d) the use is located within an irrigation district or an exclusive farm use zone. See Attachment C.
Water Well Report/Well Log for changes in point(s) of appropriation (well(s)) or additional point(s) of appropriation. See Attachment D.
Geologist Report for a change from a surface water point of diversion to a ground water point of appropriation (well), if the proposed well is more than 500 feet from the surface water source and more than 1000 feet upstream or downstream from the point of diversion. (ORS 540.531(2) or (3)). The point of diversion is in the Deschutes Basin groundwater study area, and the proposed wells are hydraulically connected to the authorized surface water source. (See June 10, 2009 memo from Ken Lite, which was developed for Transfer T-9720, in Attachment E.)

(For Staff Use Only) WE ARE RETURNING YOUR APPLICATION FOR THE FOLLOWING REASON(S): Application fee not enclosed/insufficient Map not included or incomplete Land Use Form not enclosed or incomplete Additional signature(s) required Part is incomplete Other/Explanation Staff: 503- Date: 14183

Revised 7/

Part 2 of 5 – Permit Amendment Map Checklist

Your permit amendment application **will be returned** if any of the map requirements listed below are not met.

Please be sure that the map you submit includes all the items listed below and meets the requirements of OAR 690-380-3100, however, the map does **not** have to be prepared by a Certified Water Right Examiner. Check all boxes that apply.

- N/A If **more than three** permits are involved, separate maps for each permit.
- Permanent quality printed with dark ink on good quality paper.
- The size of the map can be 8½ x 11 inches, 8½ x 14 inches, 11 x 17 inches, or up to 30 x 30 inches. For 30 x 30 inch maps, one extra copy is required.
- A north arrow, a legend, and scale.
- The scale of the map must be: 1 inch = 400 feet, 1 inch = 1,320 feet, the scale of the county assessor map if the scale is not smaller than 1 inch = 1,320 feet, or a scale that has been pre-approved by the Department.
- Township, Range, Section, ¼ ¼, DLC, Government Lot, and other recognized public land survey lines.
- Tax lot boundaries (property lines) are required. Tax lot numbers are recommended.
- Major physical features including rivers and creeks showing direction of flow, lakes and reservoirs, roads, and railroads.
- Major water delivery system features from the point(s) of diversion/appropriation such as main pipelines, canals, and ditches.
- Existing place of use that includes separate hachuring for each water use permit, priority date, and use including number of acres in each quarter-quarter section, government lot, or in each quarter-quarter section as projected within government lots, donation land claims, or other recognized public land survey subdivisions. If less than the entirety of the permit is being changed, a separate hachuring is needed for the portion of the permit left unchanged.
- N/A If you are proposing a change in place of use, show the proposed place of use with hachuring that includes separate hachuring for each permit, priority date, and use including number of acres in each quarter-quarter section, government lot, or in each quarter-quarter section as projected within government lots, donation land claims, or other recognized public land survey subdivisions.
- Existing point(s) of diversion or well(s) with distance and bearing or coordinates from a recognized survey corner. This information can be found in your water use permit.
- N/A If you are proposing a change in point(s) of diversion or well(s), show the proposed location and label it clearly with distance and bearing or coordinates. If GPS coordinates are used, latitude-longitude coordinates may be expressed as either degrees-minutes-seconds with at least one digit after the decimal (example – 42°32'15.5") or degrees-decimal with five or more digits after the decimal (example – 42.53764°).

Part 4 of 5 – Applicant Information and Signature

Applicant Information

APPLICANT/BUSINESS NAME Deschutes Valley Water District Attn: Joel Gehrett			PHONE NO. 541.475.3849	ADDITIONAL CONTACT NO.
ADDRESS 881 SW Culver Hwy			FAX NO.	
CITY Madras	STATE OR	ZIP 97741	E-MAIL jgehrett@dvwd.org	
BY PROVIDING AN E-MAIL ADDRESS, CONSENT IS GIVEN TO RECEIVE ALL CORRESPONDENCE FROM THE DEPARTMENT ELECTRONICALLY. COPIES OF THE FINAL ORDER DOCUMENTS WILL ALSO BE MAILED.				

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

AGENT/BUSINESS NAME GSI Water Solutions, Inc. Attn: Owen McMurtrey			PHONE NO. 541.257.9005	ADDITIONAL CONTACT NO.
ADDRESS 1600 SW Western Boulevard, Suite 240			FAX NO.	
CITY Corvallis	STATE OR	ZIP 97333	E-MAIL omcmurtrey@gsiws.com	
BY PROVIDING AN E-MAIL ADDRESS, CONSENT IS GIVEN TO RECEIVE ALL CORRESPONDENCE FROM THE DEPARTMENT ELECTRONICALLY. COPIES OF THE FINAL ORDER DOCUMENTS WILL ALSO BE MAILED.				

Explain in your own words what you propose to accomplish with this permit amendment; and why:
The Applicant is requesting to amend the permit to change the authorized point of diversion to four points of appropriation at four hydraulically connected wells in the Deschutes Basin groundwater study area.
 If you need additional space, continue on a separate piece of paper and attach to the application as "Attachment 1".

Check this box if this project is fully or partially funded by the American Recovery and Reinvestment Act. (Federal stimulus dollars)

Is the applicant the permit holder of record? Yes No

If NO, include either:

- A completed assignment form (with required statutory assignment fee), assigning all or a portion of the permit to the applicant(s), **OR**
- An affidavit of consent from the permit holder(s) of record that gives permission for the applicant to amend the permit.

Has the Completion ("C") Date of the permit(s) in this application expired? Yes No

If YES, this application will not be accepted by the Department.

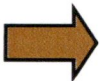
If NO, what are the completion dates of the permit(s)? October 1, 2028

- If the permit completion date expires while the Permit Amendment Application is pending, the Department will not approve the Permit Amendment Application until an Extension of Time Application is approved for the permit.
- You may consider using the Reimbursement Authority process to expedite the processing of this Permit Amendment Application if the completion date of the permit expires within 6 months of the date of filing this application.

By my signature below, I confirm that I understand:

- Prior to Department approval of the permit amendment, I may be required to submit payment to the Department for publication of a notice in a newspaper with general circulation in the area where the permit is located, once per week for two consecutive weeks. If more than one qualifying newspaper is available, I suggest publishing the notice in the following newspaper: Madras Pioneer

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



 Applicant Signature

Joel Gehrett, General Manager
 Print Name (and Title if applicable)

2/28/2023
 Date

Check one of the following:

- The applicant is responsible for completion of change(s). Notices and correspondence should continue to be sent to the applicant.
- The permit holder(s) of record will be responsible for completing the proposed change(s) after the final order is issued. Copies of notices and correspondence should be sent to the permit holder(s) of record.

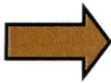
Check the appropriate box, if applicable:

- Check here if any of the permits proposed for amendment are or will be located within or served by an irrigation or other water district. **The Applicant is a water district. The Applicant's service area overlaps with the boundaries of North Unit Irrigation District (NUID) but the proposed POAs are not within NUID's boundaries.**

IRRIGATION DISTRICT NAME North Unit Irrigation District	ADDRESS 2024 NW Beech St.	
CITY Madras	STATE OR	ZIP 97741

- Check here if water for any of the permits supplied under a water service agreement or other contract for stored water with a federal agency or other entity.

ENTITY NAME	ADDRESS	
CITY	STATE	ZIP



To meet State Land Use Consistency Requirements, you must list all local governments (each county, city, municipal corporation, or tribal government) within whose jurisdiction water will be diverted, conveyed or used.

ENTITY NAME Jefferson County	ADDRESS 85 SE D Street	
CITY Madras	STATE OR	ZIP 97441

ENTITY NAME	ADDRESS	
CITY	STATE	ZIP

ENTITY NAME	ADDRESS	
CITY	STATE	ZIP

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Part 5 of 5 – Water Use Permit Information

Please use a separate Part 5 for each permit being changed. See instructions on page 6, to copy and paste additional Part 5s, or to add additional rows to tables within the form.

PERMIT # S-36515

Table 1. Location of Authorized and Proposed Point(s) of Diversion (POD) or Appropriation (POA)

(Note: If the POD/POA name is not specified in the permit, assign it a name or number here.)

POD/POA Name or Number	Is this POD/POA Authorized by the permit or is it Proposed?	If POA, OWRD Well Log ID# (or Well ID Tag # L-___)	Twp	Rng	Sec	¼	¼	Tax Lot, DLC or Gov't Lot	Measured Distances (from a recognized survey corner)		
POD	<input checked="" type="checkbox"/> Authorized <input type="checkbox"/> Proposed	NA	12	S	12	E	33	SW	NE	2800	1215 feet north, 1940 feet west from east ¼ corner of Section 33
Well 1	<input type="checkbox"/> Authorized <input checked="" type="checkbox"/> Proposed	JEFF 50263 JEFF 50287 L-22903	12	S	12	E	33	SW	NE	2800	815 feet north, 2023 feet west from east ¼ corner of Section 33
Well 2	<input type="checkbox"/> Authorized <input checked="" type="checkbox"/> Proposed	JEFF 50418 L-22300	12	S	12	E	33	SW	NE	2800	545 feet north, 1960 feet west from east ¼ corner of Section 33
Well 3	<input type="checkbox"/> Authorized <input checked="" type="checkbox"/> Proposed	JEFF 50654 L-38435	12	S	12	E	33	NW	SE	2700	78 feet south, 1890 feet west from east ¼ corner of Section 33
Well 8	<input type="checkbox"/> Authorized <input checked="" type="checkbox"/> Proposed	N/A	12	S	12	E	33	SW	NE	2800	475 feet north, 2169 feet west from east ¼ corner of Section 33.

Check all type(s) of change(s) proposed below (change "CODES" are provided in parentheses):

- | | |
|---|---|
| <input type="checkbox"/> Place of Use (POU) | <input type="checkbox"/> Point of Appropriation/Well (POA) |
| <input type="checkbox"/> Point of Diversion (POD) | <input type="checkbox"/> Additional Point of Appropriation (APOA) |
| <input type="checkbox"/> Additional Point of Diversion (APOD) | <input checked="" type="checkbox"/> Surface water POD to Ground Water POA (SW/GW) |

Will all of the proposed changes affect the entire water use permit?

- Yes Complete only the proposed ("to" lands) section of Table 2 on the next page. Use the "CODES" listed above to describe the proposed changes.
- No Complete all of Table 2 to describe the portion of the permit to be changed.

For a change in place of use:

Does the permit holder of record own or control the land TO which the place of use is being moved?

- Yes No N/A

If NO, the landowner of the land TO which the place of use is being **moved must be assigned to the permit as a permit holder of record** by submitting a completed Request for Assignment form and the required statutory fee for an assignment.

Is the proposed place of use contiguous to the authorized place of use? Yes No N/A

Please use and attach additional pages of Table 2 as needed.
See page 6 for instructions.

Do you have questions about how to fill-out the tables?
Contact the Department at 503-986-0900 and ask for Transfer

Table 2. Description of Changes to Water Use Permit # S-36515

List the change proposed for the acreage in each ¼ ¼. If more than one change is proposed, specify the acreage associated with each change. If there is more than one POD/POA involved in the proposed changes, specify the acreage associated with each POD/POA.

AUTHORIZED (the "from" or "off" lands) The listing that appears on the certificate BEFORE PROPOSED CHANGES List only that part or portion of the water right that will be changed.										Proposed Changes (see "CODES" from previous page)	PROPOSED (the "to" or "on" lands) The listing as it would appear AFTER PROPOSED CHANGES are made.													
Twp	Rng	Sec	¼	¼	Tax Lot	Gvt Lot or DLC	Acre(s) (if applicable)	POD(s) or POA(s) (name or number from Table 1)	Priority Date		Twp	Rng	Sec	¼	¼	Tax Lot	Gvt Lot or DLC	Acre(s) (if applicable)	POD(s) or POA(s) to be used (from Table 1)	Priority Date				
EXAMPLE																								
2	S	9	E	15	NE	NW	100		15.0	POD #1 POD #2		POU/POD	2	S	9	E	15	NW	NW	100	1	10.0	POD #5	
"	"	"	"	"	"	"	"	"	EXAMPLE	"		"	2	S	9	E	15	SW	NW	200		5.0	POD #6	
												SW/GW	Please see the place of use listed in Permit S-36515 provided in Attachment A						N/A	Well 1 Well 2 Well 3 Well 8	12/29/1971			
TOTAL ACRES											TOTAL ACRES										N/A			

Additional remarks: **In an earlier transfer (Transfer T-9720), the Applicant changed the other portion of Permit S-36515, then evidenced by Certificate 83733, to authorize use from nine proposed points of appropriation, including Wells 1, 2, 3, and 8, which are the proposed POAs included in this application. As shown in Attachment E, OWRD found that the proposed wells were hydraulically connected to Lower Opal Springs.**

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Are there other water rights certificates, water use permits or ground water registrations associated with the “from” or “to” lands? Yes No **NA; the permit is for quasi-municipal use so layering does not apply.**

If YES, list the other certificate, permit, or ground water registration numbers: _____



If the permit(s) are for irrigation or supplemental irrigation use, other water rights existing on the same land for irrigation that are subject to transfer must either change concurrently or be cancelled. Any change to a water right certificate or ground water registration must be filed separately in a water right transfer application or ground water registration modification application, respectively.

For a change in point(s) of appropriation (well(s)) or additional point(s) of appropriation:

- Well log(s) are attached for each authorized and proposed well(s) that are clearly labeled and associated with the corresponding well(s) in Table 1 above and on the accompanying application map. (Tip: You may search for well logs on the Department’s web page at: http://apps.wrd.state.or.us/apps/gw/well_log/Default.aspx) See Attachment D for well logs and as-builds.

AND/OR

- Describe the construction of the authorized and proposed well(s) in Table 3 for any wells that do not have a well log. For *proposed wells not yet constructed or built*, provide “a best estimate” for each requested information element in the table. The Department recommends you consult a licensed well driller, geologist, or certified water right examiner to assist with assembling the information necessary to complete Table 3.

Table 3. Construction of Point(s) of Appropriation

Any well(s) in this listing must be clearly tied to corresponding well(s) described in Table 1 and shown on the accompanying application map. Failure to provide the information will delay the processing of your transfer application until it is received. The information is necessary for the department to assess whether the proposed well(s) will access the same source aquifer as the authorized point(s) of appropriation (POA). The Department is prohibited by law from approving POA changes that do not access the same source aquifer. **See Attachment D for well logs and as-builds for Wells 1, 2 and 3.**

Proposed or Authorized POA Name or Number	Is well already built? (Yes or No)	If an existing well, OWRD Well ID Tag No. L-_____	Total well depth	Casing Diameter	Casing Intervals (feet)	Seal depth(s) (intervals)	Perforated or screened intervals (in feet)	Static water level of completed well (in feet)	Source aquifer (sand, gravel, basalt, etc.)	Well - specific rate (cfs or gpm). If less than full rate of water right
Well 8	No	NA	400 to 750 feet	12-16 inches	0 to 200-450 feet	250-450 feet	NA	Likely Artesian	Basalt	NA



February 28, 2023

Kelly Starnes
Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, OR 97301

RE: Permit Amendment Application for Permit S-36515 in the name of Deschutes Valley Water District

Dear Kelly:

Deschutes Valley Water District (DVWD) is seeking to amend Permit S-36515 to change the authorized point of diversion (Lower Opal Springs) to four hydraulically connected wells. Please find enclosed a permit amendment application and related documents.

Also enclosed is a check for the required processing fee of \$3,070.

Please contact me if you have any questions or concerns. You can reach me at OMcMurtrey@gsiws.com.

Sincerely,

A handwritten signature in black ink that reads "Owen McMurtrey". The signature is written in a cursive, slightly slanted style.

Owen McMurtrey
Water Resources Consultant

Enclosures: Water Right Permit Amendment Application
Check for application fee in the amount of \$3,070

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Attachment A

Water Use Permit S-36515

Application for Permit Amendment – Deschutes Valley Water District

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OCT 14 1971
STATE ENGINEER
SALEM, OREGON

DEC 29 1971
STATE ENGINEER
SALEM, OREGON

Permit No. 36515

*APPLICATION FOR PERMIT

T-9720

To appropriate the Public Waters of the State of Oregon

I, Deschutes Valley Water District
(Name of applicant)
of Rt. 1. Box 17, Madras
(Mailing address)
State of Oregon, do hereby make application for a permit to appropriate the following described public waters of the State of Oregon, **SUBJECT TO EXISTING RIGHTS:**

If the applicant is a corporation, give date and place of incorporation
Municipal Corporation, inc. July 1919

1. The source of the proposed appropriation is Opal Springs
(Name of stream)
, a tributary of Crooked River

2. The amount of water which the applicant intends to apply to beneficial use is 14.379
cubic feet per second. by 1990 and 22,336 c.f.s by the year 2010
(If water is to be used from more than one source, give quantity from each)

**3. The use to which the water is to be applied is to reserve supplies for future 0-20
(Irrigation, power, mining, manufacturing, domestic supplies, etc.)
year needs and 20 - 40 year needs for quasi-municipal.

4. The point of diversion is located 1215.44 ft. N and 1939.84 ft. W from the E¹
(N. or S.) (E. or W.)
corner of Sec. 33
(Section or subdivision)

(If preferable, give distance and bearing to section corner)
(If there is more than one point of diversion, each must be described. Use separate sheet if necessary)

being within the SW¹ NE¹ of Sec. 33, Tp. 12S
(Give smallest legal subdivision) (N. or S.)
R. 12 E, W. M., in the county of Jefferson
(E. or W.)

5. The to be
(Main ditch, canal or pipe line) (Miles or feet)
in length, terminating in the of Sec. , Tp.
(Smallest legal subdivision) (N. or S.)
R. , W. M., the proposed location being shown throughout on the accompanying map.
(E. or W.)

DESCRIPTION OF WORKS

Diversion Works—
6. (a) Height of dam feet, length on top feet, length at bottom feet; material to be used and character of construction
(Loose rock, concrete, masonry, rock and brush, timber crib, etc., wasteway over or around dam)

(b) Description of headgate
(Timber, concrete, etc., number and size of openings)

(c) If water is to be pumped give general description Two - 700 HP, 2000 G.P.M. pump
(Size and type of pump)
and motor installations in combination with existing turbine and pumping equipment
(Size and type of engine or motor to be used, total head water is to be lifted, etc.)

*A different form of application is provided where storage works are contemplated.
**Application for permits to appropriate water for the generation of electricity, with the exception of municipalities, must be made to the Hydroelectric Commission. Either of the above forms may be secured, without cost, together with instructions by addressing the State Engineer, Salem, Oregon.

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TWP	RANGE	SECTION		SECTION PORTIONS			
		NO.	PORTION	NW $\frac{1}{4}$	NE $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$
11S	12E	23	ALL				
"	"	14	ALL				
12S	13E	1	ALL				
"	"	2	ALL				
"	"	3	ALL				
"	"	4	ALL				
"	"	5	ALL				
"	"	6	ALL				
"	"	7	ALL				
"	"	8	ALL				
"	"	9	ALL				
"	"	10	ALL				
"	"	11	ALL				
"	"	12	14/16	ALL	ALL	ALL	NW $\frac{1}{4}$, SW $\frac{1}{4}$
"	"	13	11/16	ALL	NW $\frac{1}{4}$, SW $\frac{1}{4}$	ALL	NW $\frac{1}{4}$
"	"	14	ALL				
"	"	15	ALL				
"	"	16	ALL				
"	"	17	ALL				
"	"	18	ALL				

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TABULATION OF SECTIONS AND $\frac{1}{4}$ SECTIONS REQUIRING WATER IN THE NEXT 20 YEARS

TWP	RANGE	SECTION		SECTION PORTIONS			
		NO.	PORTION	NW $\frac{1}{4}$	NE $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$
13S	12E	1	7/16	ALL		NW $\frac{1}{4}$, NE $\frac{1}{4}$, SW $\frac{1}{4}$	
"	"	2	ALL				
"	"	12	8/16	NW $\frac{1}{4}$, SW $\frac{1}{4}$		ALL	NW $\frac{1}{4}$, SW $\frac{1}{4}$
"	"	11	ALL				
"	"	13	3/16	NW $\frac{1}{4}$, NE $\frac{1}{4}$	NW $\frac{1}{4}$		
"	"	14	2/16		NW $\frac{1}{4}$, NE $\frac{1}{4}$		
12S	12E	1	ALL				
"	"	12	ALL				
"	"	13	ALL				
"	"	24	ALL				
"	"	25	ALL				
"	"	26	ALL				
"	"	35	ALL				
"	"	36	13/16	ALL	ALL	ALL	NW $\frac{1}{4}$
11S	12E	12	4/16			SW $\frac{1}{4}$, SE $\frac{1}{4}$	SW $\frac{1}{4}$, SE $\frac{1}{4}$
"	"	13	ALL				
"	"	24	ALL				
"	"	25	ALL				
"	"	36	ALL				
"	"	26	8/16		ALL		ALL

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 SALEM OREGON

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TWP	RANGE	SECTION		SECTION PORTIONS			
		NO.	PORTION	NW $\frac{1}{4}$	NE $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$
11S	13E	10	ALL				
"	"	11	ALL				
"	"	12	ALL				
"	"	13	ALL				
"	"	14	ALL				
"	"	15	ALL				
"	"	16	ALL				
"	"	17	ALL				
"	"	18	ALL				
"	"	19	ALL				
"	"	20	ALL				
"	"	21	ALL				
"	"	22	ALL				
"	"	23	ALL				
"	"	24	ALL				
"	"	25	ALL				
"	"	26	ALL				
"	"	27	ALL				
"	"	28	ALL				
"	"	29	ALL				

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TWP	RANGE	SECTION		SECTION PORTIONS			
		NO.	PORTION	NW $\frac{1}{4}$	NE $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$
12S	13E	19	ALL				
"	"	20	ALL				
"	"	21	ALL				
"	"	22	ALL				
"	"	23	10/16	ALL	NW $\frac{1}{4}$, NE $\frac{1}{4}$	ALL	
"	"	24	2/16	NW $\frac{1}{4}$, NE $\frac{1}{4}$			
"	"	26	5/16	NW $\frac{1}{4}$, NE $\frac{1}{4}$		NW $\frac{1}{4}$, SW $\frac{1}{4}$, SE $\frac{1}{4}$	
"	"	27	14/16	ALL	ALL	NW $\frac{1}{4}$, NE $\frac{1}{4}$	ALL
"	"	28	12/16	ALL	ALL	NW $\frac{1}{4}$, NE $\frac{1}{4}$	NW $\frac{1}{4}$, NE $\frac{1}{4}$
"	"	29	14/16	ALL	ALL	ALL	NW $\frac{1}{4}$, NE $\frac{1}{4}$
"	"	30	ALL				
"	"	31	2/16	NW $\frac{1}{4}$, NE $\frac{1}{4}$			
11S	13E	1	ALL				
"	"	2	ALL				
"	"	3	ALL				
"	"	4	ALL				
"	"	5	8/16		ALL		ALL
"	"	7	4/16			SW $\frac{1}{4}$, SE $\frac{1}{4}$	SW $\frac{1}{4}$, SE $\frac{1}{4}$
"	"	8	10/16		ALL	SW $\frac{1}{4}$, SE $\frac{1}{4}$	ALL
"	"	9	ALL				

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TWP	RANGE	SECTION		SECTION PORTIONS			
		NO.	PORTION	NW $\frac{1}{4}$	NE $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$
10S	13E	20	ALL				
"	"	21	ALL				
"	"	22	ALL				
"	"	23	ALL				
"	"	24	ALL				
"	"	25	ALL				
"	"	26	ALL				
"	"	27	ALL				
"	"	28	ALL				
"	"	29	ALL				
"	"	32	8/16		ALL		ALL
"	"	33	ALL				
"	"	34	ALL				
"	"	35	ALL				
"	"	36	ALL				
9S	13E	34	ALL				
"	"	35	ALL				
"	"	36	ALL				
12S	14E	6	ALL				
		7	4/16	NW $\frac{1}{4}$, NE $\frac{1}{4}$	NW $\frac{1}{4}$, NE $\frac{1}{4}$		

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TWP	RANGE	SECTION		SECTION PORTIONS			
		NO.	PORTION	NW $\frac{1}{4}$	NE $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$
11S	13E	30	ALL				
"	"	31	ALL				
"	"	32	ALL				
"	"	33	ALL				
"	"	34	ALL				
"	"	35	ALL				
"	"	36	ALL				
10S	13E	1	ALL				
"	"	2	ALL				
"	"	3	ALL				
"	"	10	ALL				
"	"	11	ALL				
"	"	12	ALL				
"	"	13	ALL				
"	"	14	ALL				
"	"	15	ALL				
"	"	16	ALL				
"	"	17	ALL				
"	"	18	8/16		ALL		ALL
"	"	19	10/16		ALL	NE $\frac{1}{4}$, SE $\frac{1}{4}$	ALL

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TWP	RANGE	SECTION		SECTION PORTIONS			
		NO.	PORTION	NW ¹ / ₄	NE ¹ / ₄	SW ¹ / ₄	SE ¹ / ₄
10S	14E	15	ALL				
"	"	16	ALL				
"	"	17	ALL				
"	"	18	ALL				
"	"	19	ALL				
"	"	20	ALL				
"	"	21	ALL				
"	"	22	ALL				
"	"	28	ALL				
"	"	29	ALL				
"	"	30	ALL				
"	"	31	ALL				
"	"	32	ALL				
"	"	33	8/16	ALL		ALL	
9S	14E	31	ALL				
"	"	32	ALL				
"	"	33	ALL				
"	"	34	ALL				
"	"	35	1 ⁴ / ₁₆	ALL	NW ¹ / ₄ , SW ¹ / ₄	ALL	ALL
"	"	36	4/16			ALL	

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TWP	RANGE	SECTION		SECTION PORTIONS			
		NO.	PORTION	NW $\frac{1}{4}$	NE $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$
11S	14E	5	8/16	ALL		ALL	
"	"	6	ALL				
"	"	7	ALL				
"	"	18	ALL				
"	"	19	ALL				
"	"	30	ALL				
"	"	31	ALL				
10S	14E	1	8/16	ALL		ALL	
"	"	2	ALL				
"	"	3	ALL				
"	"	4	ALL				
"	"	5	ALL				
"	"	6	ALL				
"	"	7	ALL				
"	"	8	ALL				
"	"	9	ALL				
"	"	10	ALL				
"	"	11	ALL				
"	"	12	8/16	ALL		ALL	
10S	14E	14	ALL				

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TWP	RANGE	SECTION		SECTION PORTIONS			
		NO.	PORTION	NW $\frac{1}{4}$	NE $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$
11S	12E	12	12/16	ALL	ALL	NW $\frac{1}{4}$, NE $\frac{1}{4}$	NW $\frac{1}{4}$, NE $\frac{1}{4}$
"	"	11 1	10/16 ALL		ALL		NW$\frac{1}{4}$, NE$\frac{1}{4}$
"	"	2	11/16	SE $\frac{1}{4}$	ALL	SE $\frac{1}{4}$, NE $\frac{1}{4}$	ALL
10S	12E	36	13/16	SE $\frac{1}{4}$	ALL	ALL	ALL
"	"	25 35	1/16 1/16				SE $\frac{1}{4}$ SE $\frac{1}{4}$
13S	13E	7	3/16			SE $\frac{1}{4}$	SW $\frac{1}{4}$, SE $\frac{1}{4}$
"	"	16	6/16			NE $\frac{1}{4}$, SW $\frac{1}{4}$, SE $\frac{1}{4}$	NW $\frac{1}{4}$, SW $\frac{1}{4}$, SE $\frac{1}{4}$
"	"	17	8/16	ALL		ALL	
"	"	18	ALL				
"	"	19	ALL				
"	"	20	ALL				
"	"	21	ALL				
"	"	22	1/16			SW $\frac{1}{4}$	
"	"	27	7/16	NW $\frac{1}{4}$, SW $\frac{1}{4}$, SE $\frac{1}{4}$		ALL	
"	"	28	ALL				
"	"	29	ALL				
"	"	30	ALL				
"	"	31	10/16	ALL	ALL		NW $\frac{1}{4}$, NE $\frac{1}{4}$
		32	15/16	ALL	ALL	ALL	NW $\frac{1}{4}$, NE $\frac{1}{4}$, SW $\frac{1}{4}$
		33	2/16		NW $\frac{1}{4}$, NE $\frac{1}{4}$		

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TABULATION OF SECTIONS OR $\frac{1}{4}$ SECTIONS REQUIRING ADDITIONAL WATER IN THE 20 TO 40 YEAR PERIOD

TWP	RANGE	SECTION		SECTION PORTIONS			
		NO.	PORTION	NW $\frac{1}{4}$	NE $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$
13S	12E	3	All				
"	"	4	3/16		NW $\frac{1}{4}$, NE $\frac{1}{4}$, SE $\frac{1}{4}$		
"	"	10	4/16		All		
"	"	13	13/16	SW $\frac{1}{4}$, SE $\frac{1}{4}$	NE $\frac{1}{4}$, SW $\frac{1}{4}$, SE $\frac{1}{4}$	All	All
"	"	14	4/16	NE $\frac{1}{4}$	SW $\frac{1}{4}$, SE $\frac{1}{4}$		NE $\frac{1}{4}$
"	"	24	4/16		All		
12S	12E	34	All				
"	"	33	8/16		All		All
"	"	27	9/16		SW $\frac{1}{4}$, SE $\frac{1}{4}$	NE $\frac{1}{4}$, SE $\frac{1}{4}$, SW $\frac{1}{4}$	All
"	"	23	12/16	NE $\frac{1}{4}$, SE $\frac{1}{4}$	All	NE $\frac{1}{4}$, SE $\frac{1}{4}$	All
"	"	14	8/16		All		All
"	"	11	8/16		All		All
"	"	2	8/16		All		All
11S	12E	35	12/16	NE $\frac{1}{4}$, SE $\frac{1}{4}$	All	NE $\frac{1}{4}$, SE $\frac{1}{4}$	All
"	"	27	3/16		NW $\frac{1}{4}$, NE $\frac{1}{4}$, SE $\frac{1}{4}$		
"	"	26	8/16	All		All	
"	"	22	5/16		NE $\frac{1}{4}$, SE $\frac{1}{4}$		NE $\frac{1}{4}$, SE $\frac{1}{4}$, SW $\frac{1}{4}$
"	"	15	7/16		All		NE $\frac{1}{4}$, SE $\frac{1}{4}$, NW $\frac{1}{4}$
"	"	10	4/16			SE $\frac{1}{4}$	NE $\frac{1}{4}$, SW $\frac{1}{4}$, SE $\frac{1}{4}$
"	"	11	15/16	NE $\frac{1}{4}$, SW $\frac{1}{4}$, SE $\frac{1}{4}$	All	All	All

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TWP	RANGE	SECTION		SECTION PORTIONS			
		NO.	PORTION	NW $\frac{1}{4}$	NE $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$
9S	13E	23	All				
"	"	24	14/16	NW $\frac{1}{4}$, SW $\frac{1}{4}$	ALL	ALL	ALL
"	"	25	ALL				
"	"	26	ALL				
"	"	27	ALL				
"	"	28	ALL				
"	"	29	8/16		ALL		ALL
"	"	31	3/16		SE $\frac{1}{4}$		NE $\frac{1}{4}$, SE $\frac{1}{4}$
"	"	32	14/16	SW $\frac{1}{4}$, SE $\frac{1}{4}$	ALL	ALL	ALL
"	"	33	ALL				
12S	14E	4	3/16	NW $\frac{1}{4}$, NE $\frac{1}{4}$	NW $\frac{1}{4}$		
"	"	5	14/16	ALL	ALL	ALL	NW $\frac{1}{4}$, NE $\frac{1}{4}$
"	"	8	2/16	NW $\frac{1}{4}$, NE $\frac{1}{4}$			
11S	14E	3	5/16	NW $\frac{1}{4}$, SW $\frac{1}{4}$		NW $\frac{1}{4}$, SW $\frac{1}{4}$, SE $\frac{1}{4}$	
"	"	4	ALL				
"	"	5	8/16		ALL		ALL
"	"	8	ALL				
"	"	9	ALL				
"	"	10	4/16	ALL			
"	"	16	ALL				

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TWP	RANGE	SECTION		SECTION PORTIONS			
		NO.	PORTION	NW $\frac{1}{4}$	NE $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$
13S	13E	34	7/16	NW $\frac{1}{4}$, NE $\frac{1}{4}$, SE $\frac{1}{4}$	SW $\frac{1}{4}$		NW $\frac{1}{4}$, SW $\frac{1}{4}$, SE $\frac{1}{4}$
11S	13E	5	8/16	ALL		ALL	
"	"	6	ALL				
"	"	7	12/16	ALL	ALL	NW $\frac{1}{4}$, NE $\frac{1}{4}$	NW $\frac{1}{4}$, NE $\frac{1}{4}$
"	"	8	6/16	ALL		NW $\frac{1}{4}$, NE $\frac{1}{4}$	
10S	13E	4	ALL				
"	"	5	ALL				
"	"	6	8/16		ALL		ALL
"	"	7	1/16				SE $\frac{1}{4}$
"	"	8	14/16	SW $\frac{1}{4}$, SE $\frac{1}{4}$	ALL	ALL	ALL
"	"	9	ALL				
"	"	30	12/16		ALL	ALL	ALL
"	"	31	ALL				
"	"	32	8/16	ALL		ALL	
9S	13E	14	5/16			ALL	SW $\frac{1}{4}$
"	"	15	6/16			NE $\frac{1}{4}$, SE $\frac{1}{4}$	ALL
"	"	16	3/16			SE $\frac{1}{4}$	SW $\frac{1}{4}$, SE $\frac{1}{4}$
"	"	20	4/16		SE $\frac{1}{4}$		NE $\frac{1}{4}$, SW $\frac{1}{4}$, SE $\frac{1}{4}$
"	"	21	ALL				
"	"	22	ALL				

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TWP	RANGE	SECTION		SECTION PORTIONS			
		NO.	PORTION	NW $\frac{1}{4}$	NE $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$
11S	14E	20	ALL				
"	"	17	ALL				
"	"	21	12/16	ALL		ALL	ALL
"	"	28	ALL				
"	"	29	ALL				
"	"	32	ALL				
"	"	33	14/16	ALL	ALL	ALL	NW $\frac{1}{4}$, SW $\frac{1}{4}$
10S	14E	12	8/16		ALL		ALL
"	"	13	ALL				
"	"	23	14/16	ALL	ALL	ALL	NW $\frac{1}{4}$, NE $\frac{1}{4}$
"	"	24	14/16	ALL	ALL	ALL	NW $\frac{1}{4}$, SW $\frac{1}{4}$
"	"	26	4/16	ALL			
"	"	27	ALL				
"	"	33	8/16		ALL		ALL
"	"	34	13/16	ALL	NW $\frac{1}{4}$, NE $\frac{1}{4}$, SW $\frac{1}{4}$	ALL	NW $\frac{1}{4}$, SW $\frac{1}{4}$
9S	14E	7	9/16		NE $\frac{1}{4}$, SW $\frac{1}{4}$, SE $\frac{1}{4}$	NE $\frac{1}{4}$, SE $\frac{1}{4}$	ALL
"	"	8	6/16	ALL		NW $\frac{1}{4}$, NE $\frac{1}{4}$	
"	"	17	4/16			SW $\frac{1}{4}$, SE $\frac{1}{4}$	SW $\frac{1}{4}$, SE $\frac{1}{4}$
"	"	18	ALL				
"	"	19	ALL				

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PERMIT

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

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 22.3 cubic feet per second measured at the point of diversion from the stream, or its equivalent in case of rotation with other water users, from Opal Springs

The use to which this water is to be applied is quasi-municipal

If for irrigation, this appropriation shall be limited to _____ of one cubic foot per second or its equivalent for each acre irrigated _____

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

The priority date of this permit is December 29, 1971

Actual construction work shall begin on or before March 13, 1974 and shall

thereafter be prosecuted with reasonable diligence and be completed on or before October 1, 1974
Extended to October 1, 1993 Extended to October 1, 1988 Extended to Oct. 1, 1983 Extended to Oct. 1978 Extended to Oct. 1977

Complete application of the water to the proposed use shall be made on or before October 1, 1975
Extended to October 1, 1983 Extended to October 1, 1988 Extended to Oct. 1, 1983 Extended to Oct. 1978 Extended to Oct. 1977

WITNESS my hand this 13th day of March, 1973

B+C to 10-1-98

BCφ3

Chris L. Wheeler

STATE ENGINEER

Application No. 48909
Permit No. 36515

PERMIT

TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF OREGON

This instrument was first received in the office of the State Engineer at Salem, Oregon, on the 24th day of December, 1971, at 5:00 o'clock A. M.

Returned to applicant:

Approved:

March 13, 1973

Recorded in book No. _____ of _____

Permits on page 36515

CHRIS L. WHEELER
STATE ENGINEER

Drainage Basin No. 5 page 146
Fees 89.00

State Printing 9617

Municipal or Domestic Supply—

(Culver, Metolius, Madras and the balance of the residents,

10. (a) To supply the city of (industry & manufacturing contained within the Districts 200 sq. mile area of

Jefferson County, having a present population of 6310 (service) (Name of)

and an estimated population of 7,935 in 1992; 10,851 in 2012.

(b) If for domestic use state number of families to be supplied (1570 - 1972 (1958 - 1992 (2713 - 2012

(Answer questions 11, 12, 13, and 14 in all cases)

11. Estimated cost of proposed works, \$ 2,468,000

12. Construction work will begin on or before 1982

13. Construction work will be completed on or before 1985

14. The water will be completely applied to the proposed use on or before 1985

Deschutes Valley Wtr Dist (Signature of applicant) W. M. Mackenzie Mgr

Remarks: Due to the size of the project, a three year or longer construction period will be required. First phase will include construction of the pump house structure, placement of the 700 hp motors, pumps, valves, electrical controls and switch gear, all to be located at Opal Springs. Second phase will include construction of the 20" dia. trunk transmission line from the pump house structure at Opal Springs with placement north-easterly through the intensified agricultural areas lying west of the City of Culver, Metolius and Madras. Cross connections will be made to the above Cities to improve present water demand requirements and to provide some cushion for projected future domestic, industrial and commercial needs. From the development that is now occurring it is realized by the D.V.W.D. that both immediate and long range planning is an absolute necessity if the D.V.W.D. is to keep pace with projected future water demand requirements and if the County's successes in the next 0 - 20 - 40 years are to match those that have occurred over the past 40 years.

STATE OF OREGON, } ss. County of Marion,

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

In order to retain its priority, this application must be returned to the State Engineer, with corrections on or before March 24, 1972

WITNESS my hand this 24th day of January, 1972

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RECEIVED FEB 22 1972 STATE ENGINEER SALEM OREGON

CHRIS L. WHEELER STATE ENGINEER By Wayne J. Overcash ASSISTANT

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Attachment B

Permit Amendment Application Maps

Application for Permit Amendment – Deschutes Valley Water District

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Attachment C

Land Use Information Form

Application for Permit Amendment – Deschutes Valley Water District

Land Use Information Form

Applicant(s): Deschutes Valley Water District

Mailing Address: 881 SW Culver Hwy

City: Madras

State: OR

Zip Code: 97741

Daytime Phone: 541.475.3849

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:
<u>12 S</u>	<u>12 E</u>	<u>33</u>	<u>SW NE</u>	<u>2800</u>	A1-Farm Use	<input checked="" type="checkbox"/> Diverted <input checked="" type="checkbox"/> Conveyed <input type="checkbox"/> Used	<u>Quasi Municipal</u> 3777
<u>12 S</u>	<u>12 E</u>	<u>33</u>	<u>NW SE</u>	<u>2700</u>	A1-Farm Use	<input checked="" type="checkbox"/> Diverted <input checked="" type="checkbox"/> Conveyed <input type="checkbox"/> Used	<u>Quasi Municipal</u> 3776

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

Jefferson 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) Opal Springs

Estimated quantity of water needed: 11.92 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:

The Applicant is requesting to amend a surface water permit to change the authorized point of diversion to four groundwater wells that are hydraulically connected to Opal Springs.

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.

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):

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.

JEFFERSON COUNTY
 COMMUNITY DEVELOPMENT DEPT.
 85 SE "D" STREET
 MADRAS OREGON 97741

zone: EFU-11

Name: Tanya Cloutier Title: Assistant Planner

Signature: Tanya Cloutier Phone: 503-442-4462 Date: 2/27/23

Government Entity: Jefferson Co.

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: _____

Well 1: JEFF 50263 and JEFF 50287

Well 2: JEFF 50418

Well 3: JEFF 50654

Attachment D

Well Logs and As-Builts

Application for Permit Amendment – Deschutes Valley Water District

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L22903

STATE OF OREGON WATER SUPPLY WELL REPORT (as required by ORS 537.765)

WELL I.D.#

WATER RESOURCES DEPT. # 104266 SALEM, OREGON

Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number 450-103 Name Deschutes Valley Water district Address 1141 SW Culver HWY City Culver State OR Zip 97741

(2) TYPE OF WORK: [X] New Well [] Deepening [] Alteration (repair/recondition) [] Abandonment

(3) DRILL METHOD: [X] Rotary Air [] Rotary Mud [] Cable [] Auger [] Other

(4) PROPOSED USE: [] Domestic [X] Community [X] Industrial [] Irrigation [] Thermal [] Injection [] Livestock [] Other

(5) BORE HOLE CONSTRUCTION: Special Construction approval [] Yes [X] No Depth of Completed Well 425 ft. Explosives used [] Yes [X] No Type Amount

Table with columns: HOLE Diameter, From, To, Material, SEAL From, To, Sacks or pounds. Rows include bent/cem and cement.

How was seal placed: Method [] A [] B [X] C [] D [] E [] Other poured dry on bentonite Backfill placed from 50 ft. to 68 ft. Material hole plug Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER: Table with columns: Diameter, From, To, Gauge, Steel, Plastic, Welded, Threaded. Rows for Casing and Liner.

Final location of shoe(s)

(7) PERFORATIONS/SCREENS: Table with columns: From, To, Slot size, Number, Diameter, Material, Tele/pipe size, Casing, Liner.

(8) WELL TESTS: Minimum testing time is 1 hour

Table for well tests with columns: Pump, Bailer, Air, Flowing Artesian, Yield gal/min, Drawdown, Drill stem at, Time. Values include 4,500 and 2hr.

Temperature of water 53 Depth Artesian Flow Found 253 Was a water analysis done? [] Yes By whom Did any strata contain water not suitable for intended use? [] Too little [] Salty [] Muddy [] Odor [] Colored [X] Other Sandy Depth of strata: 3'-216'

(9) LOCATION OF WELL by legal description: County Jefferson Latitude Longitude Township 12S N or S Range 12E B or W. WM. Section 33 1/4 SW 1/4 NE Tax Lot Lot Block Subdivision Street Address of Well (or nearest address) 7676 SW Lasalle LN Culver OR

(10) STATIC WATER LEVEL: Flowing ft. below land surface. Date Artesian pressure 48 lb. per square inch. Date 11-26-97

(11) WATER BEARING ZONES: Depth at which water was first found 3'

Table with columns: From, To, Estimated Flow Rate, SWL. Rows show flow rates of 1,500gpm and 4,500gpm at various depths.

(12) WELL LOG: Ground Elevation 3116

Table for well log with columns: Material, From, To, SWL. Lists materials like basalt rubble, cemented volcanics, conglomerate red, etc.

Date started 10-14-97 Completed 11-27-97

(unbonded) Water Well Constructor Certification: I certify that the work I performed on the construction, 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.

Signed Robert WWC Number 1523 Date 11-27-97

(bonded) Water Well Constructor Certification: I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work 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.

Signed WWC Number 723 Date 12-27-97

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER

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WATER SUPPLY WELL REPORT

JEFF 50287

Received Date 6/17/1998

(as required by ORS 537.765)

Well ID # L

Instructions for completing this report are on the last page of this form.

Start Card # 112147

(1) OWNER Well Number _____
 Name _____
 DESCHUTES VALLEY WATER DISTRICT
 Street 1141 SW CULVER HWY
 City MADRAS State OR Zip 87741

(9) LOCATION OF HOLE By legal description
 County Jefferson Latitude Longitude
 Township 12.00 S Range 12.00 E Subdivision
 Tax lot 2800 Lot Block
 Section 33 SW 1/4 NE 1/4
 Street Address of Well (or nearest address)
 7676 SW LASALLE LANE, CULVER
 MAP with location identified must be attached

(2) TYPE OF WORK
 New Alter (Recondition) Alter (Repair)
 Deepening Abandonment

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Auger
 Other _____

(10) STATIC WATER LEVEL
 Ft. below land surface. Date
 Artesian Pressure 50 lb/sq. in. Date 6/28/1998

(4) PROPOSED USE
 Domestic Community Industrial Irrigation Injection
 Livestock Thermal Other _____

(11) WATER BEARING ZONES
 Depth at which water was first found ft.

From	To	Est. Flow Rate	SWL
437	740		

(5) BORE HOLE CONSTRUCTION
 Special Standards Depth of completed well 740 ft.
 Explosives Used Amount Type _____

Diameter	From	To	Material	Begin Depth	End Depth	Material Amount	Units
12.00	230.00	427	Cement	10.00	427.00	12.00	S
8.00	427.00	740					

How as seal placed: Method _____ Other _____
 Backfill placed from _____ ft. TO _____ ft. Material _____
 Filter pack from _____ ft. TO _____ ft. Size _____ in.

(12) WELL LOG
 Ground Elevation ft. _____

(6) CASING/LINER

Casing or Liner	Diameter	Begin Depth	End Depth	Gauge	Construction			Location Of Shoe
					Material	Weld	Threaded	
C	10.00	0.00	425.00		S			

Material	From	To	SWL
BLACK BASALT	427	437	
BROKEN RED CINDERS	437	440	
WEATHERED BASALT	440	448	
MEDIUM HARD BASALT	448	488	
HARD BLACK VISCOUS BASALT	488	484	
WEATHERED BASALT, W/CLAY	484	504	
HARD BLACK VISCOUS BASALT	504	554	
HARD BLACK BASALT, FRACTURE	554	608	
VERY HARD BASALT	608	618	
HARD BLACK BASALT	618	654	
HARD BLACK BASALT, CLAY	654	658	
FRACTURED HARD BLACK BASAL	658	684	
BROKEN HARD BLACK BASALT	684	694	
BROKEN HARD BLACK BASALT, C	694	702	
FRACTURED BASALT	702	713	
HARD BLACK VISCOUS BASALT	713	720	
HARD BLACK BASALT, FRACTURE	720	740	

(7) PERFORATION/SCREENS
 Perforation Method _____
 Screens Type _____ Material _____

Date started 5/11/1998 Completed 5/28/1998

(8) WELL TESTS (Minimum testing time is 1 hour)
 Duration of Test _____
 type of Test Yield Units Drawdown Stem at _____
 Flowing Artes 3500.0 G _____
 Temperature of water 53 °F/C Depth artesian flow found _____ ft.
 Was water analysis done?
 By Whom? DAVID J. NEWTON ASSOCIATES
 Did any strata contain water not suitable for intended use? Too Little Salty
 Mudd Odor Colored Other _____
 Depth of strata _____ ft.

(unbonded) Water Well Constructor Certification:
 I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to the best knowledge and belief.
 WWC Number 1523
 Signed By ROBERT STADELI
 (bonded) Water Well Constructor Certification:
 I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.
 WWC Number 1484
 Signed By GREG MCINNIS GEO-TECH EXPLORATIONS

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WATER SUPPLY WELL REPORT

(as required by ORS 537.765)

Instructions for completing this report are on the last page of this form.

JEFF 50287

Amended 11/16/98

Received Date 6/17/1998

Well ID # L 22300

Start Card # 112147

(1) OWNER Well Number

Name
 DESCHUTES VALLEY WATER DISTRICT

Street 1141 SW CULVER HWY
 City MADRAS State OR Zip 97741

(2) TYPE OF WORK

New Alter (Recondition) Alter (Repair)
 Deepening Abandonmen

(3) DRILL METHOD

Rotary Air Rotary Mud Cable Auger

Other

(4) PROPOSED USE

Domestic Community Industria Irrigatio Injectio
 Livestoc Thermal Other

(5) BORE HOLE CONSTRUCTION

Special Standards Depth of completed well 740 ft.
 Explosives Used Amount Type

From	To	Material	Amount	Seal Grout Weight	Units
410	427	CO	12		S

How as seal placed: Method Other

Backfill placed from ft. TO ft. Material
 Filler pack from ft. TO ft. Size in.

(6) CASING/LINER

Diameter	From	To	Gauge	Material	Welded	Glued	Threaded
10.00	0	425		S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(7) PERFORATION/SCREENS

Perforation Method
 Screens Type Material

(8) WELL TESTS (Minimum testing time is 1 hour)

Temperature of water 53 °F/C Depth artesian flow found ft.
 Was water analysis done?
 By Whom? DAVID J. NEWTON ASSOCIATES
 Did any strata contain water not suitable for intended use? Too Little Salty
 Mudd Odor Colored Other
 Depth of strata ft.

(9) LOCATION OF HOLE By legal description

County Jefferson Latitude Longitude
 Township 12.00 S Range 12.00 E Subdivision
 Tax lot 2800 Lot Block
 Section 33 SW 1/4 NE 1/4
 Street Address of Well (or nearest address)
 7676 SW LASALLE LANE, CULVER
 MAP with location indentified must be attached

(10) STATIC WATER LEVEL

Fl. below land surface. Date
 Artesian Pressure 50 lb/sq. in. Date 5/28/1998

(11) WATER BEARING ZONES

Depth at which water was first found ft.

From	To	Est. Flow Rate	SWL
437	740		

(12) WELL LOG

Ground Elevation ft.

Material	From	To	SWL
BLACK BASALT	427	437	
BROKEN RED CIND	437	440	
WEATHERED BASA	440	445	
MEDIUM HARD BAS	445	455	
HARD BLACK VISC	455	484	
WEATHERED BASA	484	504	
HARD BLACK VISC	504	554	
HARD BLACK BASA	554	605	
VERY HARD BASAL	605	615	
HARD BLACK BASA	615	654	
HARD BLACK BASA	654	655	
FRACTURED HARD	655	684	
BROKEN HARD BLA	684	694	
BROKEN HARD BLA	694	702	
FRACTURED BASAL	702	713	
HARD BLACK VISC	713	720	
HARD BLACK BASA	720	740	

Date started 5/11/1998 Completed 5/28/1998

(unbonded) Water Well Constructor Certification:
 I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to the best knowledge and belief.

WWC Number 1523
 Signed By ROBERT STADELI

(bonded) Water Well Constructor Certification:
 I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed complies with Oregon well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 1464
 Signed By GREG MCINNIS

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WATER RESOURCES DEPT. SALEM, OREGON

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STATE OF OREGON

WATER SUPPLY WELL REPORT

(as required by ORS 537.785)

Instructions for completing this report are on the last page of this form.

JEFF 50418 *Amendment*

Received Date 12/18/1998

Well ID Tag # L 29717

Start Card # 117231

(1) OWNER

Well Number 29717

Name

DESCHUTES VALEY WATER DISTRICT

Street 1141 SW CULVER HWY

City MADRAS

State OR Zip 97741

(2) TYPE OF WORK

- New Alter (Recondition) Alter (Repair)
 Deepening Abandonment

(3) DRILL METHOD

- Rotary Air Rotary Mud Cable Auger
 Other

(4) PROPOSED USE

- Domestic Community Industrial Irrigatio Injection
 Livestock Thermal Other

(5) BORE HOLE CONSTRUCTION

Special Standards Depth of completed well 513 ft.

Explosives Used Amount Type

Diameter	From	To	Material	Begin Depth	End Depth	Material Amount	Units
20.00	0.00	258					
15.00	258.00	513	Cement	0.00	85.00	110.00	S
			Cement	30.00	258.00	44.00	S

How as seal placed: Method C Other

Backfill placed from 85 ft TO 70 ft. Material BE

Filter pack from ft. TO ft. Size in.

(6) CASING/LINER

Casing or Liner	Diameter	Begin Depth	End Depth	Gauge	Construction			Location Of Shoe
					Material	Weld	Threaded	
C	18.00	0.00	258.00	0.375	S			

(7) PERFORATION/SCREENS

- Perforation Method
 Screens Type Material

(8) WELL TESTS (Minimum testing time is 1 hour)

Type	Yield	Units	Drawdown	Stem at	Duration
Flowing Artes	5000.0	G			1.0

Temperature of water 53 °F/C Depth artesian flow found 287 ft.

Was water analysis done?

By Whom? DAVID EVANS ASSOCIATES

Did any strata contain water not suitable for intended use? Too Little Salty

Mudd Odor Colored Other

Depth of strata ft.

(9) LOCATION OF HOLE By legal description

County Jefferson Latitude Longitude
 Township 12.00 S Range 12.00 E Subdivision
 Tax lot 2800 Lot Block
 Section 33 SW 1/4 NE 1/4
 Street Address of Well (or nearest address)
 7676 SW LASALLE LANE, CULVER
 MAP with location identified must be attached

(10) STATIC WATER LEVEL

48.0 Ft. below land surface. Date 12/05/1998
 Artesian Pressure 46.0 lb/sq. in. Date 12/05/1998

(11) WATER BEARING ZONES

Depth at which water was first found 48 ft.

From	To	Est. Flow Rate	SWL
17	245	1500	9
267	453	5000	48

(12) WELL LOG

Ground Elevation ft.

Material	From	To	SWL
LOOSE SOIL & PUMICE FILL	0	6	
BASALT RUBBLE	6	25	
SAND & GRAVELS CONGLOMERAT	25	41	
UP TO 1 INCH DIAMETER	41	50	46
SAND STONE TUFF & BASALT	50	60	
CONGLOMERATE	60	79	
CEMENTED SAND & GRAVELS	79	108	
LARGE COBBLES CEMENTED	108	117	
BASALT & GRAVELS	117	122	
BROWN TUFF STONE	122	128	
TUFF & GRAVELS	128	223	
BROKEN WEATHERED BASALT	223	245	
BASALT HARD REDDISH GRAY	245	267	
BROKEN WEATHERED BASALT	267	268	
WEATHERED BASALT SAND & GRA	268	308	
BROKEN WEATHERED BASALT	308	387	
HARD BASALT	387	400	
BASALT HARD W/ SOME FRACTURE	400	420	
BROKEN WEATHERED BASALT	420	423	
BROKEN BASALT WITH CINDERS	423	442	
BASALT GREY HARD	442	448	
BROKEN BASALT WITH CINDERS	448	453	
HARD GREY BASALT	453	513	

p21

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 WATER RESOURCES DEPT
 SALEM, OREGON

Date started 11/18/1998 Completed 2/05/1998

(unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to the best knowledge and belief.

Signed By ROBERT STADELI

(bonded) Water Well Constructor Certification: WWC Number 1523

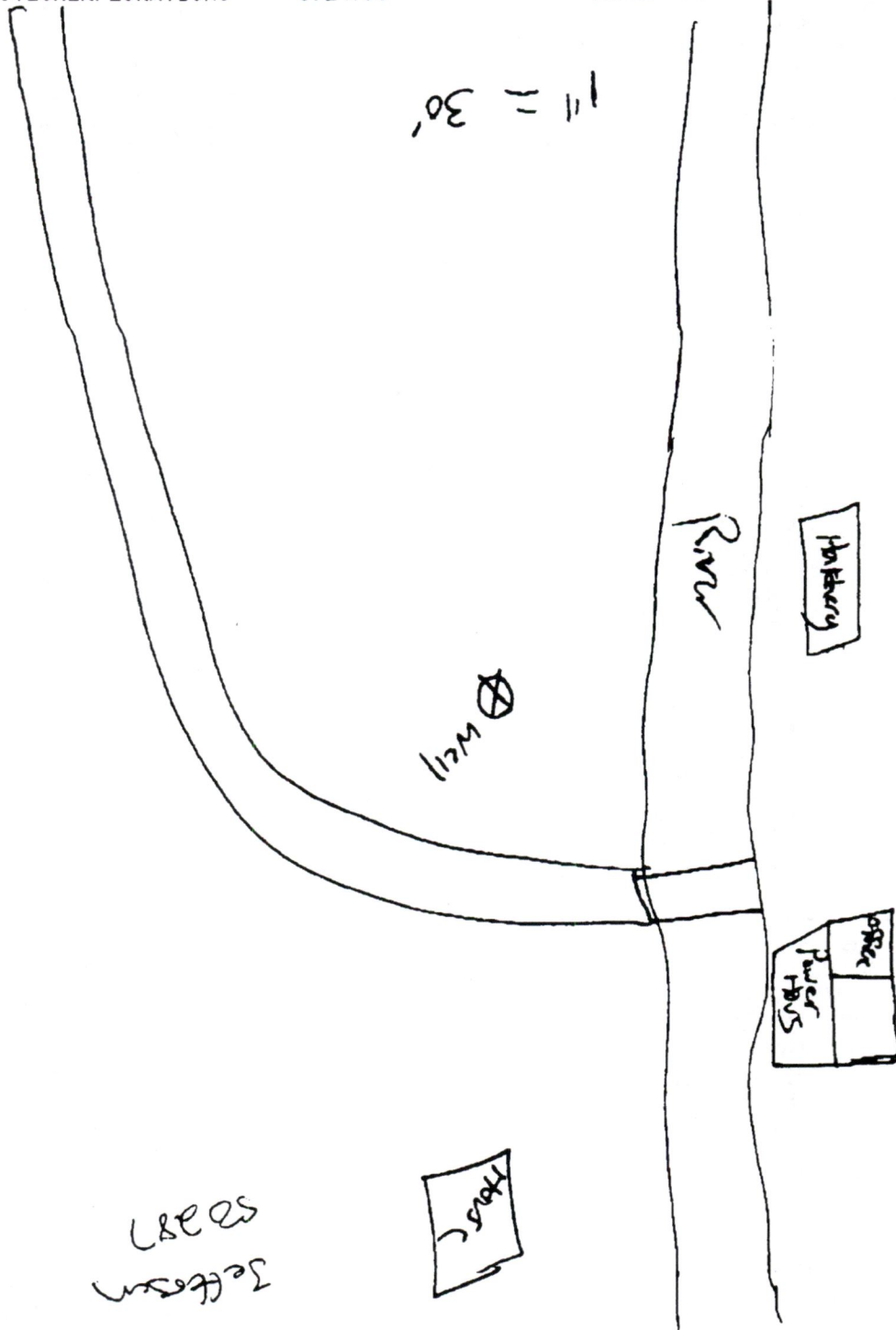
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 1484

Signed By GREG MCINNIS

GEO-TECH EXPLORATIONS

14183



1" = 30'

Housing

Office
Power House

Well

House

Jefferson
30287

SITE MAP

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STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)

OWRD

JEFF
50654

JUL 27 2000

WELL I.D. # L 38435
START CARD # 129512

Instructions for completing this report are on the last page of this form.

WATER RESOURCES DEPT.
SALEM, OREGON

(1) OWNER: Deschutes Valley Water District
Name Deschutes Valley Water District
Address 881 SW Collier Hwy
City Madras State OR Zip 97741
Well Number 3 SALEM, OREGON

CONTOIN OF WELL by legal description:
County Jefferson Latitude Longitude
Township 12 N or S Range 12 E or W. WM.
Section 33 SW 1/4 NE 1/4
Tax Lot 280 Lot Block Subdivision
Street Address of Well (or nearest address) 7675 SW Wadsworth Ln

(2) TYPE OF WORK
 New Well Deepening Alteration (repair/recondition) Abandonment

(3) DRILL METHOD:
 Rotary Air Rotary Mud Cable Auger
 Other

(4) PROPOSED USE:
 Domestic Community Industrial Irrigation
 Thermal Injection Livestock Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval Yes No Depth of Completed Well 665 ft.
Explosives used Yes No Type Amount

HOLE SEAL

Diameter	From	To	Material	From	To	Sacks or pounds
20"	0	17	Cement	0	60	34 sacks
18"	17	270	Cement	250	270	200 sacks
15"	270	665				

How was seal placed: Method A B C D E
 Other bottom Seal Pumped inside out
Backfill placed from ft. to ft. Material
Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: 16"	0	270	.375	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s)

(7) PERFORATIONS/SCREENS:

From	To	Slot size	Number	Diameter	Material	Tele/pipe size	Casing	Liner
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

(8) WELL TESTS: Minimum testing time is 1 hour
 Pump Bailer Air Flowing Artesian
Yield gal/min 3-4000 Drawdown Drill stem at Time 1 hr.

Temperature of water 48 Depth Artesian Flow Found 297
Was a water analysis done? Yes By whom
Did any strata contain water not suitable for intended use? Too little
 Salty Muddy Odor Colored Other
Depth of strata:

(10) STATIC WATER LEVEL:
~~3~~ ft. below land surface. Date ~~7-2-00~~
Artesian pressure 48 lb. per square inch. Date 7-2-00

(11) WATER BEARING ZONES:
Depth at which water was first found 17'

From	To	Estimated Flow Rate	SWL
17'	260	500-1000 GPM	12'
297	665	3-4,000 GPM	48 PS

(12) WELL LOG:
Ground Elevation

Material	From	To	SWL
Circles, Gravels	0	1	
lg Basalt boulders & gravels	1	66	
Basalt gravel & brown siltstone	66	90	
Coarse Basalt Gravel	90	100	
Coarse Basalt Gravel, F/Boulders	100	110	
Basalt Gravel, sandstone, cong.	110	240	
Weathered Basalt	240	247	
w/Basalt - Hqd - Sm Brk Sls	247	250	
w/Basalt - soft & gravel	250	256	
w/Basalt - mac gravel	256	260	
Tuff w/Basalt	260	270	
Fine Sandy Silts Tuff w/Basalt & frags	270	272	
Hard Basalt	272	276	
Basalt w/brown clay	276	280	

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See Attached - SEP 24 2001

WATER RESOURCES DEPT.
SALEM, OREGON

Date started 5-31-2000 Completed 7-2-2000

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, 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.
Signed Gordon E. [Signature] WWC Number 1751 Date 7-11-2000

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work 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.
Signed [Signature] WWC Number 1464 Date 7/26/00

STATE OF OREGON
WATER SUPPLY WELL REPORT

JEFF 50418

Received Date **12/16/1998**
 Well ID Tag # **L 29717**
 Start Card # **117231**

(as required by ORS 837.765)

Instructions for completing this report are on the last page of this form.

(1) OWNER Well Number **29717**

Name
DESCHUTES VALEY WATER DISTRICT
 Street **1141 SW CULVER HWY**
 City **MADRAS** State **OR** Zip **97741**

(2) TYPE OF WORK

- New Alter (Recondition) Alter (Repair)
 Deepening Abandonment

(3) DRILL METHOD

- Rotary Air Rotary Mud Cable Auger
 Other

(4) PROPOSED USE

- Domestic Community Industrial Irrigation Injection
 Livestock Thermal Other

(5) BORE HOLE CONSTRUCTION

Special Standards Depth of completed well **513** ft.
 Explosives Used Amount Type

Diameter	From	To	Material	Begin Depth	End Depth	Material Amount	Units
20.00	0.00	258					
15.00	58.00	513	Cement	0.00	65.00	110.0	S
			Cement	230.0	258.00	44.00	S

How seal placed: Method **C** Other

Backfill placed from **65** ft. TO **70** ft. Material **BE**
 Filter pack from **ft.** TO **ft.** Size **in.**

(6) CASING/LINER

Casing or Liner	Diameter	Begin Depth	End Depth	Gauge	Construction			Location Of Shoe
					Material	Weird	Threaded	
C	16.00	0.00	258.00	.325	S	■	■	

(7) PERFORATION/SCREENS

- Perforation Method
 Screens Type Material

(8) WELL TESTS (Minimum testing time is 1 hour)

Type	Yield	Units	Drawdown	Stem at	Duration
Flowing	000.0	G			1.0

Temperature of water **53** °F/C Depth artesian flow found **287** ft.

Was water analysis done?

By Whom? **DAVID EVANS ASSOCIATES**

Did any strata contain water not suitable for intended use? Too Little Salty

Mudd Odor Colored Other

Depth of strata **ft.**

(9) LOCATION OF HOLE By legal description

County Latitude Longitude
 Township **12.00 S** Range **12.00 E** Subdivision
 Tax lot **2800** Lot **Block**
 Section **33 SW 1/4 NE 1/4**

Street Address of Well (or nearest address)
7676 SW LASALLE LANE, CULVER
 MAP with location identified must be attached

(10) STATIC WATER LEVEL

46.0 Ft. below land surface. Date **12/06/1998**

Artesian Pressure lb/sq. in. Date

(11) WATER BEARING ZONES

Depth at which water was first found **46** ft.

From	To	Est. Flow Rate	SWL
17	245	1500	9
267	453	5000	46

(12) WELL LOG

Material	Ground Elevation		ft.	SWL
	From	To		
LOOSE SOIL & PUMICE FILL	0	6		
BASALT RUBBLE	6	25		
SAND & GRAVELS CONGLOMERA	25	41		
UP TO 1 INCH DIAMETER	41	50	46	
SAND STONE TUFF & BASALT	50	60		
CONGLOMERATE	60	79		
CEMENTED SAND & GRAVELS	79	108		
LARGE COBBLES CEMENTED	108	117		
BASALT & GRAVELS	117	122		
BROWN TUFF STONE	122	128		
TUFF & GRAVELS	128	223		
BROKEN WEATHERED BASALT	223	245		
BASALT HARD REDDISH GRAY	245	267		
BROKEN WEATHERED BASALT	267	268		
WEATHERED BASALT SAND & GR	268	308		
BROKEN WEATHERED BASALT	308	387		
HARD BASALT	387	400		
BASALT HARD W/ SOME FRACTU	400	420		
BROKEN WEATHERED BASALT	420	423		
BROKEN BASALT WITH CINDERS	423	442		
BASALT GREY HARD	442	448		
BROKEN BASALT WITH CINDERS	448	453		
HARD GREY BASALT	453	513		

Date started **11/18/1998** Completed **2/05/1998**

(unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to the best knowledge and belief.

Signed By **ROBERT STADEL**

(bonded) Water Well Constructor Certification: WWC Number **1523**

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon well construction standards.

This report is true to the best of my knowledge and belief.

WWC Number **1464**

Signed By **GREG MCINNIS**

GEO-TECH EXPLORATIONS

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JEFF 50654
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Hard Weathered Basalt With Tan Clays	510	521
Slightly Softer Basalt	521	530
Some Tan Clay	530	542
Cinders, Weathered Basalt, Tan Clay	542	545
Very Cindery, Weathered	545	547
Hard, Fractured Basalt With Tan Clay	547	572
More Fractured Broken Weathered Basalt	572	587
More Fractured Basalt, Tan Clay	587	591
Decreasing Fractured Basalt	591	600
Medium to Hard Basalt	600	601
U. Hard Basalt	601	607
Fractured, Weathered Basalt, With Tan Clay	607	611
Red Cinders, Weathered Basalt With Lots of Clay	611	620
Red Cinder, Weathered Basalt & Tan Clay	620	625
Decreasing Cinders	625	627
Decreasing Clay	627	630
Weathered Basalt	630	638
Large Fractured Tan Clay	638	640
Weathered Basalt and Tan Clay	640	650
Fractured Basalt, Tan Clay	650	652
Some Fractured Basalt, Clay	652	655
Harder Basalt, Some Fractured	655	660
Dense Hard Basalt	660	665

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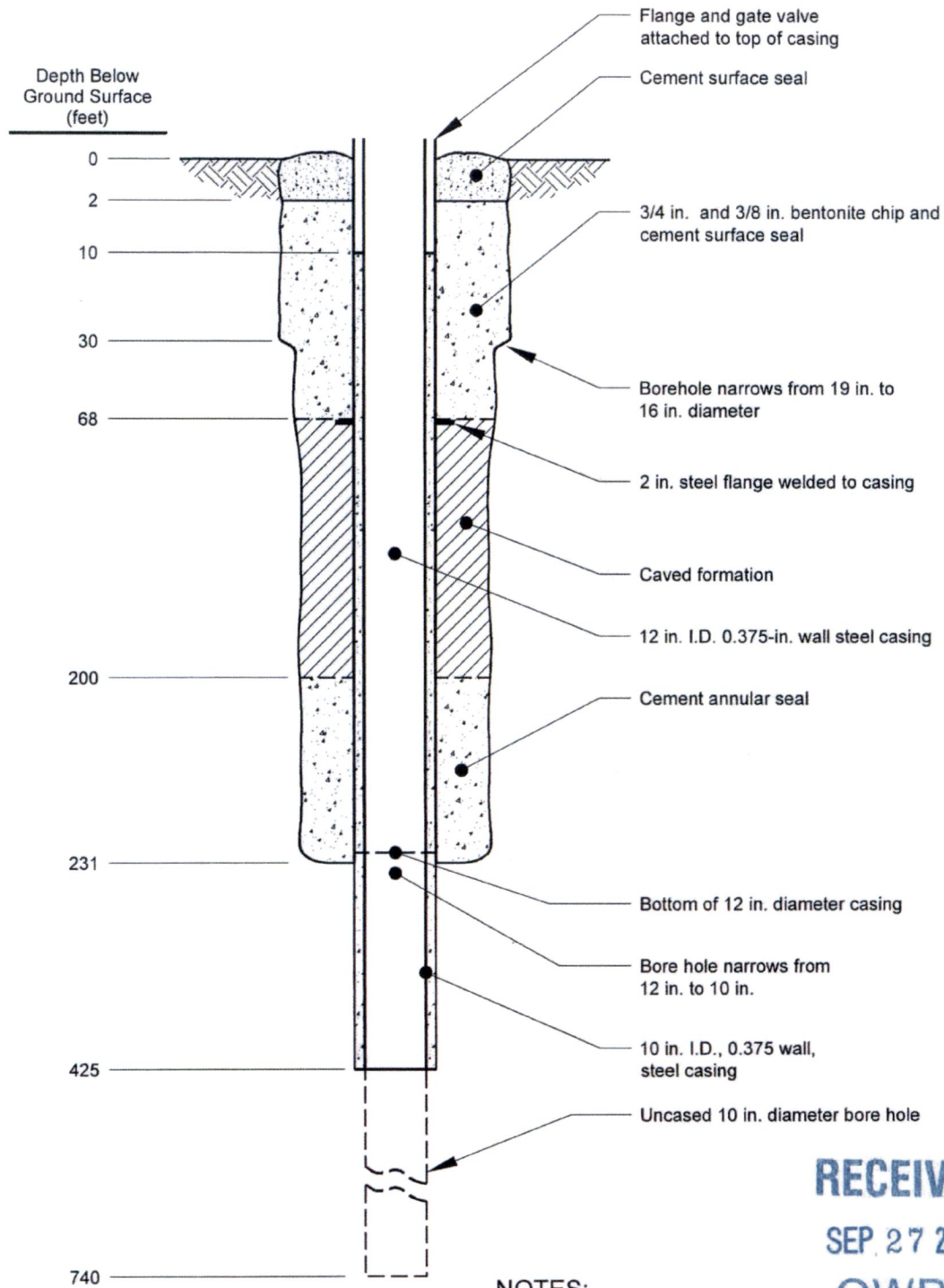
Well Log (Cont.) WATER RESOURCES DEPT.
SALEM, OREGON

Basalt with Brown Silty Clay	276	277
Basalt some tan clays, gray to dark red	277	278
Basalt some silts, black and red	278	282
Basalt darken, less clay and silts	282	283
Basalt, dark gray, some weathered	283	284
Hard Dense Basalt	284	293
Hard Dense Basalt, some fractured	293	295
Hard Dense Basalt with tan clays	295	297
Fractured, broke basalt	297	300
Weathered red coarse sandstone & basalt gravel	300	304
Coarse Basalt and Gravel	304	308
Coarse Brown Sandy Silts, w/light brown ash	308	317
V. Coarse Basalt and Gravel	317	321
Weathered Basalt, w/some gravel	321	324
Hard Dense Basalt, weathered	324	335
Tan Sandy Silt and Clay	335	338
Less Weathered Hard Basalt	338	345
Coarse Sand and Gravel	345	353
Dark Gray Coarse Soft Sand and Silts	353	363
Some Hard Basalt	363	365
Sand and Gravel, Soft	365	370
Sand and Gravel	370	388
Hard Weathered Basalt, Small Fractured	388	410
Hard Dense Basalt	410	431
Weathered Broken Basalt, Some Tan Class Filling	431	437
Broken Basalt With Red Cinders	437	440
Broken Weathered Basalt, Hard	440	445
Hard Dense Basalt	445	448
Broken Weathered Basalt	448	450
Some Tan Clay	450	453
Hard Dense Basalt	453	500
Hard Fractured Basalt w/Tan Clay	500	505
Weathered Red Basalt With Tan Clay	505	510

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MAR 08 2023

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RECEIVED

MAR 08 2023

OWRD

RECEIVED

SEP 27 2017

OWRD

NOTES:

GROUND SURFACE ELEV. 1983 feet MSL
 COMPLETION DATE May 20, 1998
 OWRD LOG ID No. 50263 / 50287

NOT TO SCALE

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NEWTON
 CONSULTANTS INC.
 Water, Earth, and Rock Specialists
 Ph: 541 504-9960 Fax: 541 504-9961



Well No. 1 As-Built - T-9720
CONSTRUCTION DETAILS

DESIGNED BY:
 D. Newton

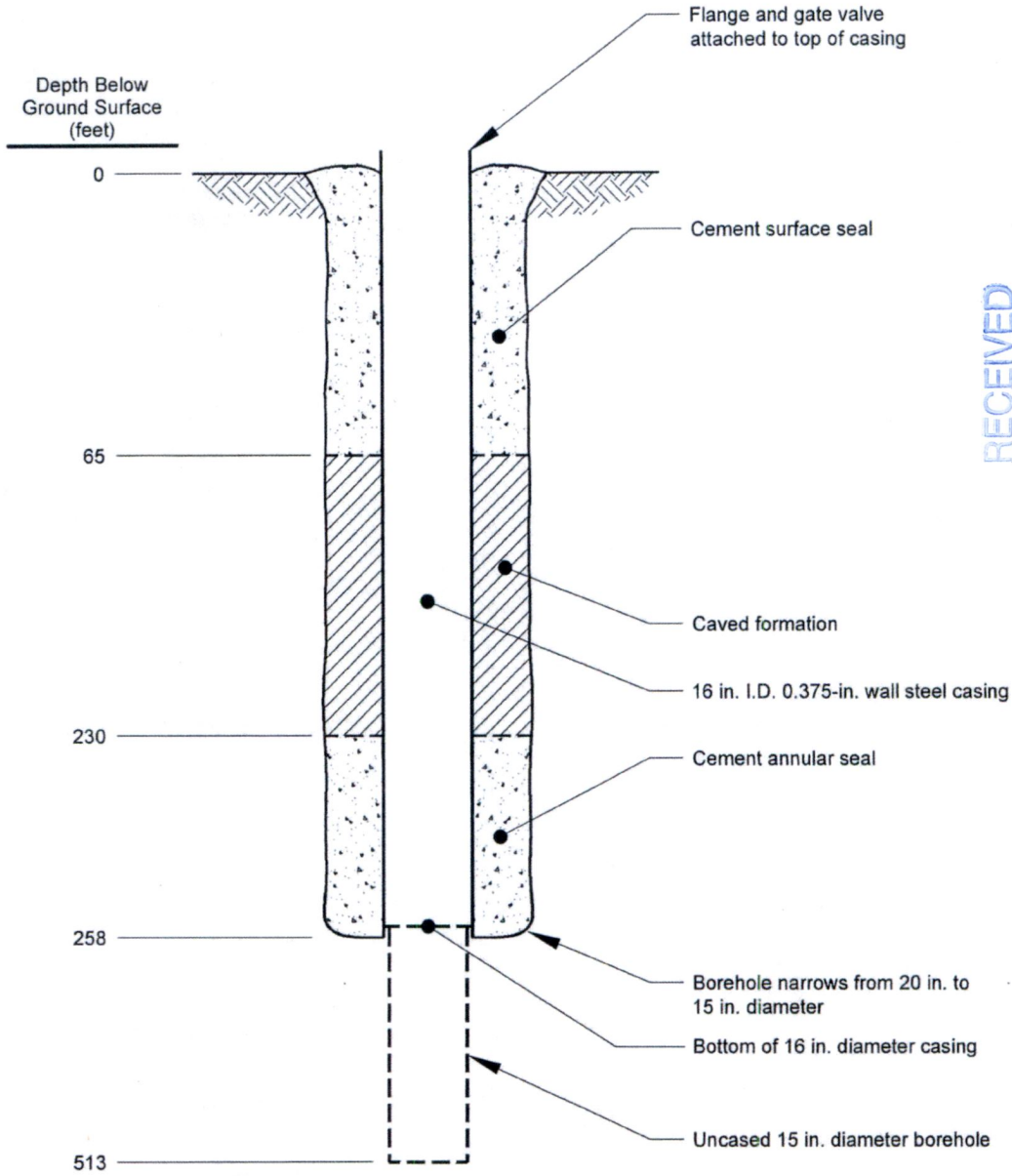
DRAWN BY:
 S. Schenck

DATE:
 JUNE 2003

PROJECT NO.
 450 - 117

FIGURE 1

14183



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OWRD

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SEP 27 2017
OWRD

NOT TO SCALE

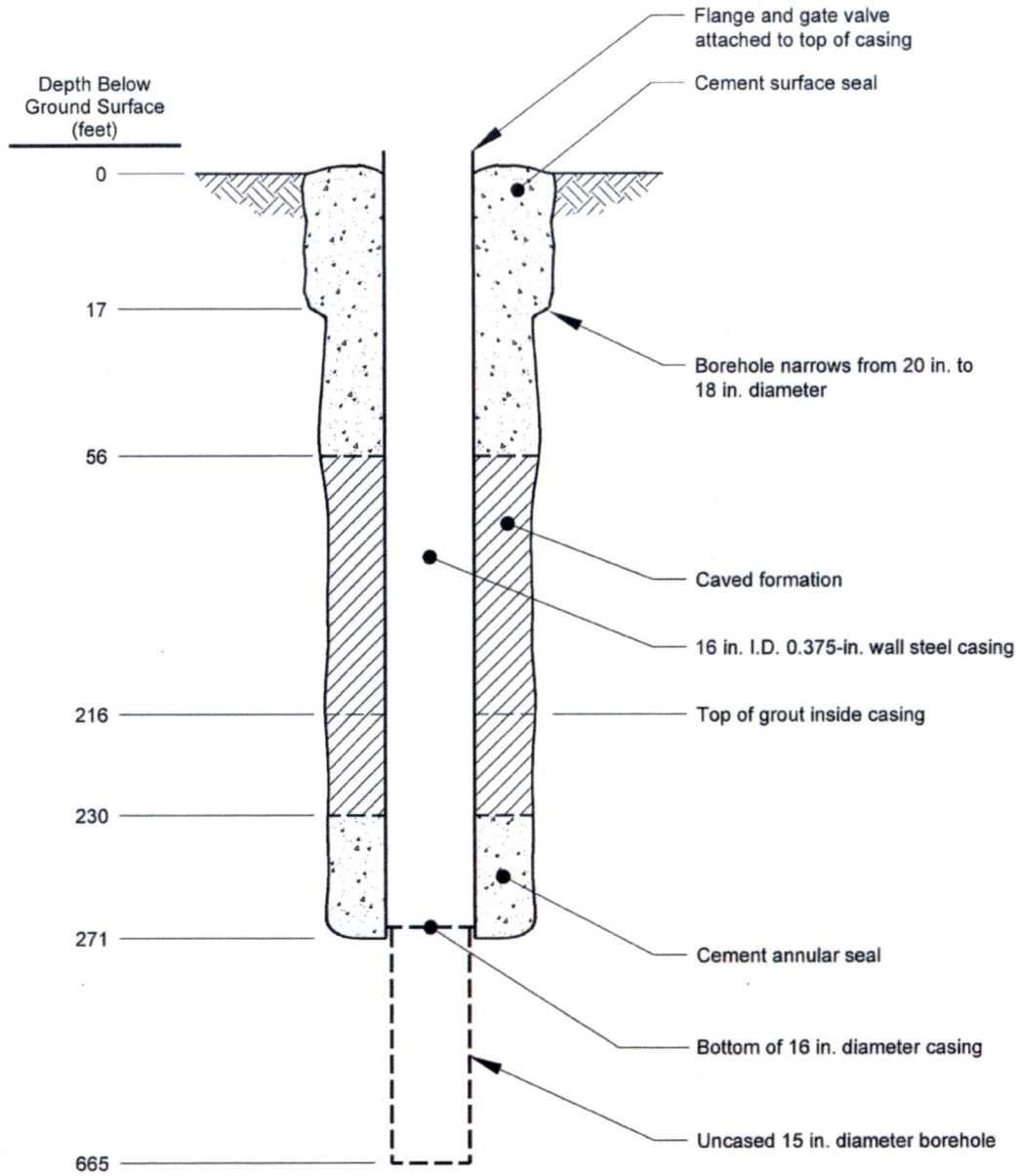
NOTES:
GROUND SURFACE ELEV. 1993 feet MSL
COMPLETION DATE February 5, 1998
OWRD LOG ID No. 50418

G:\0400\450\117\Cad\Water\W450117_F1_WeiDet_13:47_08/30/2017_SS

NEWTON
CONSULTANTS INC.
Water, Earth, and Rock Specialists
Ph: 541 504-9960 Fax: 541 504-9961

Well No. 2 As-Built - T-9720
CONSTRUCTION DETAILS

DESIGNED BY: D. Newton	DRAWN BY: S. Schenck	DATE: JUNE 2003	PROJECT NO. 450 - 117	FIGURE 2
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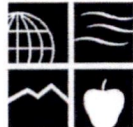
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 SEP. 27 2017
 OWRD

NOTES:
 GROUND SURFACE ELEV.2002 feet MSL
 COMPLETION DATEJuly 11, 2000
 OWRD LOG ID No.50654

NOT TO SCALE

C:\0400\450\117\Cad\Water\W450117_F1_WelDet_13:47_08/30/2017_SS

NEWTON
 CONSULTANTS INC.
 Water, Earth, and Rock Specialists
 Ph: 541 504-9960 Fax: 541 504-9961



Well No. 3 As-Built - T-9720
 CONSTRUCTION DETAILS

DESIGNED BY:
 D. Newton

DRAWN BY:
 S. Schenck

DATE:
 JUNE 2003

PROJECT NO.
 450 - 117

FIGURE 3

14183

Attachment E

June 10, 2009 Memo from Ken Lite (Transfer T-9720)
Application for Permit Amendment - Deschutes Valley Water District

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14183

Date: Tue, 12 Apr 2005 10:00:10 -0700
From: "Dave Newton" <dnewton@newtonconsultants.com>
To: kenneth.E.LITE@wrd.state.or.us
Subject: Opal Springs Flow Test Data
X-Security: MIME headers sanitized on kettle.wrd.state.or.us
See <http://www.impsec.org/email-tools/sanitizer-intro.html>
for details. \$Revision: 1.139 \$Date: 2003-09-07 10:14:23-07
X-Mailer: Microsoft Outlook CWS, Build 9.0.2416 (9.0.2910.0)
Importance: Normal
X-Spam-Checker-Version: SpamAssassin 2.63 (2004-01-11) on
kettle.wrd.state.or.us
X-Spam-Status: No, hits=0.0 required=5.0 tests=none autolearn=ham version=2.63
X-Spam-Level:

Ken:

I have found flow test data for a 30-day test conducted in March 2001.

The data is in table form and is attached for your use in evaluating the Deschutes Valley Water District transfer application-Opal Springs to wells.

When you look at the table, you will see that Well #1 and Well #3 were left shut in. The artesian pressure for each of the shut-in wells is shown on the table. Well # 2 was opened*to flow at 4,500 gpm initially, then dropped to 4,400 gpm. The changes in Opal Springs staff gage are shown during the test on the far right side of the table.

I am also looking for a graphic representation of an additional flow test we conducted and will get it to you as soon as possible.

I hope this is helpful Ken.

David



30 Day Flow Test data.xls

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Memorandum

June 10, 2009

TO: T-9720RA

FROM: Ken Lite, Hydrogeologist, Oregon Water Resources Dept.

SUBJECT Hydraulic Connection Finding

Transfer T-9720RA is being proposed to move 10.38 CFS from a surface water POA (Lower Opal Springs) to 3 nearby wells constructed to depths ranging from 513-feet to 740-feet, and 6 proposed wells (proposed depths 400-750'). The wells appear to be hydraulically connected to Lower Opal Springs as evidenced by an apparent pressure response at the spring collection facility during the operation of Well #1 (Newton, 2001 unpublished data). In addition, Wells 2 and 3 have also been shown to respond to the operation of Well #1 (Newton, 2004 unpublished data).

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Opal Springs Flow Test Data

Deschutes Valley Water District

30-day Flow Test

	Date	Time	Elapsed Time (hour)	Well #1 (psi)	Well #2 (gpm)	Well #3 (psi)	Spring staff gage
Pre-test							
	2/23/2001	720					
	2/23/2001	810		49	47	44	
Test							
	2/23/2001	900	0	49	4500	44	0.14
	2/23/2001	1100	2	48	4500	44	0.14
	2/23/2001	1300	4	47	4500	44	0.13
	2/23/2001	1500	6	47	4400	44	0.12
	2/23/2001	1700	8	47	4400	44	0.13
	2/24/2001	700	22	47	4400	44	0.14
	2/24/2001	900	24	48	4400	44	0.13
	2/24/2001	1100	* 26	48	4400	44	0.12
	2/24/2001	1300	28	47	4400	44	0.12
	2/24/2001	1500	30	47	4400	44	0.12
	2/24/2001	1700	32	47	4400	44	0.12
	2/25/2001	700	46	48	4400	44	0.13
	2/25/2001	900	48	48	4400	44	0.14
	2/25/2001	1100	50	48	4400	44	0.14
	2/25/2001	1300	52	48	4400	44	0.14
	2/25/2001	1500	54	48	4400	44	
	2/25/2001	1700	56	48	4400	44	
	2/26/2001	730	70.3	49	4400	43	0.13
	2/26/2001	1630	79.3	49	4400	44	0.13
	2/27/2001	730	94.3	48	4400	44	0.12
	2/27/2001	1600	103	50	4400	44	0.12
	2/28/2001	800	119	47	4400	44	0.12
	2/28/2001	1230	123.3	47	4400	44	0.12
	2/28/2001	1630	127.3	47	4400	44	0.12
	3/1/2001	800	143	47	4400	44	0.13
	3/1/2001	1230	147.3	47	4400	44	0.12
	3/1/2001	1645	151.45	47	4400	44	0.13
	3/2/2001	700	166	47	4400	43	0.13
	3/2/2001	1200	171	49	4400	44	0.12
	3/2/2001	1630	175.3	48	4400	44	0.13
	3/3/2001	730	190.3	47	4400	43	0.12
	3/3/2001	1200	195	47	4400	44	0.13
	3/3/2001	1630	199.3	47	4400	44	0.12
	3/4/2001	730	214.3	47	4400	43	0.12

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3/4/2001	1200	219	48	4400	44	0.12
3/4/2001	1630	223.3	48	4400	44	0.12
3/5/2001	730	238.3	47	4400	43	0.12
3/5/2001	1630	247.3	48	4400	44	0.12
3/6/2001	730	262.3	47	4400	43	0.12
3/6/2001	1630	271.3	48	4400	44	0.12
3/7/2001	730	286.3	47	4400	44	0.12
3/7/2001	1200	291	48	4400	44	0.12
3/7/2001	1630	295.3	48	4400	44	0.12
3/8/2001	730	310.3	47	4400	44	0.12
3/8/2001	1200	315	48	4400	44	0.12
3/8/2001	1630	319.3	48	4400	44	0.12
3/9/2001	715	334.15	47	4400	43	0.12
3/9/2001	1200	339	48	4400	44	0.12
3/9/2001	1630	343.3	48	4400	44	0.12
3/10/2001	730	358.3	47	4400	43	0.12
3/10/2001	1200	363	48	4400	44	0.12
3/10/2001	1630	367.3	48	4400	44	0.13
3/11/2001	730	382.3	47	4400	44	0.12
3/11/2001	1200	387	47	4400	44	0.12
3/11/2001	1630	391.3	47	4400	44	0.12
3/12/2001	730	406.3	48	4400	44	0.12
3/12/2001	1600	415	48	4400	44	0.12
3/13/2001	730	430.3	48	4400	44	0.12
3/13/2001	1630	439.3	48	4400	44	0.12
3/14/2001	800	455	48	4400	44	0.12
3/14/2001	1200	459	48	4400	44	0.12
3/14/2001	1630	463.3	48	4400	44	0.12

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