Water Resources Department

MEMO 7/28/, 2003

TO **Application G-** 16014

FROM **GW:** Marc A Norton
(Reviewer's Name)

SUBJECT **Scenic Waterway Interference Evaluation**

☐ Yes
☒ No

The source of appropriation is within or above a Scenic Waterway

☐ Yes
☒ No

Use the Scenic Waterway condition (Condition 7J).

PREPONDERANCE OF EVIDENCE FINDING: (Check box only if statement is true)

☒

At this time the Department is unable to find that there is a preponderance of evidence that the proposed use of ground water will measurably reduce the surface water flows necessary to maintain the free-flowing character of a scenic waterway in quantities necessary for recreation, fish and wildlife.

FLOW REDUCTION: *(To be filled out only if Preponderance of Evidence box is not checked)*

Exercise of this permit is calculated to reduce monthly flows in _____ Scenic Waterway by the following amounts expressed as a proportion of the consumptive use by which surface water flow is reduced.

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

TO: Water Rights Section Date 7/28/2003

FROM: Ground Water/Hydrology Section **Marc A. Norton**
Reviewer's Name

SUBJECT: Application G- **16014** Supersedes review of _____
Date of Review(s)

PUBLIC INTEREST PRESUMPTION; GROUNDWATER

OAR 690-310-130 (1) *The Department shall presume that a proposed groundwater use will ensure the preservation of the public welfare, safety and health as described in ORS 537.525.* Department staff review ground water applications under OAR 690-310-140 to determine whether the presumption is established. OAR 690-310-140 allows the proposed use be modified or conditioned to meet the presumption criteria. **This review is based upon available information and agency policies in place at the time of evaluation.**

A. GENERAL INFORMATION:

Applicant's Name: **Mel Omeg**

A1. Applicant(s) seek(s) **0.891** cfs from **1** well(s) in the **Hood** Basin, **Threemile Creek** subbasin Quad Map: **The Dalles South**

A2. Proposed use: **Irrigation** Seasonality: **3/1 to 10/31**

A3. Well and aquifer data **(attach and number logs for existing wells; mark proposed wells as such under logid):**

Well	Logid	Proposed Aquifer*	Proposed Rate(cfs)	Location (T/R-S QQ-Q)	Location, metes and bounds, example: 2250' N, 1200' E fr NW cor S 36
1	**WASC 51102**	**CRB**	**0.891**	**01N/13E-33 NW/NW**	**528' S & 70' E from the NW corner sec.33**
	WASC 51165	**CRB**			**Deepening Log**
3					
4					
5					

* Alluvium, CRB, Bedrock

Well	Well Elev ft msl	First Water ft bls	SWL ft bls	SWL Date	Well Depth (ft)	Seal Interval	Casing Intervals	Liner Intervals	Perforations Or Screens	Well Yield	Draw Down	Test Type
1	1310	417	110	8/24/02	575	0 - 18.5	+2 - 301			80		Air
		670	240	3/13/02	704	? 575 ?				210		Air

Use data from application for proposed wells.

A4. Comments: **Lower seal was set at 575 by pulling up the casing, installing a plug, and adding 5 yards of sand cement. The deepening log was not submitted to the Department at the time of review. I called the constructor and they faxed a copy of the log to me. I don't believe that the well meets well construction standards.**

Well #1 is Owner's Well #2

A5. ☐ Provisions of the **Hood** Basin rules relative to the development, classification and/or management of ground water hydraulically connected to surface water ☐ **are**, *or* ☒ **are not**, activated by this application. (Not all basin rules contain such provisions.)
Comments: _____

A6. ☐ Well(s) # _____, _____, _____, _____, _____, tap(s) an aquifer limited by an administrative restriction.
Name of administrative area: _____
Comments: **The well is located about 1.5 miles south of The Dalles Critical Ground Water Area**

Application G-16014 continued Date 7/28/2003

B. GROUND WATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130, 400-010, 410-0070

B1. Based upon available data, I have determined that ground water* for the proposed use:

a. ☐ is over appropriated, ☐ **is not** over appropriated, *or* ☐ **cannot be determined to be** over appropriated during any period of the proposed use. * This finding is limited to the ground water portion of the over-appropriation determination as prescribed in OAR 690-310-130;

b. ☐ **will not** *or* ☐ **will** likely be available in the amounts requested without injury to prior water rights. * This finding is limited to the ground water portion of the injury determination as prescribed in OAR 690-310-130;

c. ☐ **will not** *or* ☐ **will** likely to be available within the capacity of the ground water resource; or

d. ☒ **will, if properly conditioned,** avoid injury to existing ground water rights or to the ground water resource:
   i. ☒ The permit should contain condition #(s) **7B - Interference & 7I - decline condition + large monitoring** ;
   ii. ☐ The permit should be conditioned as indicated in item 2 below.
   iii. ☒ The permit should contain special condition(s) as indicated in item 3 below;

B2. a. ☐ **Condition** to allow ground water production from no deeper than _____ ft. below land surface;

b. ☐ **Condition** to allow ground water production from no shallower than _____ ft. below land surface;

c. ☐ **Condition** to allow ground water production only from the _____ ground water reservoir between approximately_____ ft. and_____ ft. below land surface;

d. ☐ **Well reconstruction** is necessary to accomplish one or more of the above conditions. The problems that are likely to occur with this use and without reconstructing are cited below. Without reconstruction, I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Department and approved by the Ground Water Section.

Describe injury –as related to water availability– that is likely to occur without well reconstruction (interference w/ senior water rights, not within the capacity of the resource, etc): _____

B3. Ground water availability remarks: **This land has an existing ground water application, G-14607, from a different well located nearby. A short aquifer test was conducted by Larry Toll and myself on 5/13/2003. The pump in the well for this application was turned on for about 60 minutes. Water levels were measured in both wells. The data showed a very weak connection. There is considerable difference in water temperatures between the two wells. It was determined that the new well (WASC 51102) was in a different aquifer than the initial well (WASC 50496). The existing water right could not be transferred to the new well.**

B1(d)(iii) The reference level shall be 216 feet below land surface

C. GROUND WATER/SURFACE WATER CONSIDERATIONS, OAR 690-09-040

C1. **690-09-040 (1):** Evaluation of aquifer confinement:

Well	Aquifer or Proposed Aquifer	Confined	Unconfined
1	**CRB**	☒	☐
		☐	☐
		☐	☐

Basis for aquifer confinement evaluation: **Hydrogeologic setting.**

C2. **690-09-040 (2) (3):** Evaluation of distance to, and hydraulic connection with, surface water sources. All wells located a horizontal distance less than ¼ mile from a surface water source that produce water from an unconfined aquifer shall be assumed to be hydraulically connected to the surface water source. Include in this table any streams located beyond one mile that are evaluated for PSI.

Well	SW #	Surface Water Name	GW Elev ft msl	SW Elev ft msl	Distance (ft)	Hydraulically Connected? YES	NO	ASSUMED	Potential for Subst. Interfer. Assumed? YES	NO
1	**1**	**Threemile Creek**	**1070**	**960**	**3000**	☐	☒	☐	☐	☐
						☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐

Basis for aquifer hydraulic connection evaluation: **Hydrogeologic setting. According to the deepening log, the well is developing water from an interflow zone at 670 feet below land surface. That would be a water level elevation of 640 above seal level, well below the nearby stream. The probable discharge point for the aquifer is the Columbia River, 5.4 miles to the north.**

Identify the Water Availability Sub-Basin the well(s) are located within: **Threemile Creek, tributary to Columbia River**

C3a. **690-09-040 (4):** Evaluation of stream impacts for each well that has been determined or assumed to be **hydraulically connected and less than 1 mile** from a surface water source. Limit evaluation to instream rights and minimum stream flows that are pertinent to that surface water source, and not lower SW sources to which the stream under evaluation is tributary. Compare the requested rate against the 1% of 80% *natural* flow for the pertinent Water Availability Basin (WAB). If Q is not distributed by well, use full rate for each well. Any checked ☒ box indicates the well is assumed to have the potential to cause PSI.

Well	SW #	Well < ¼ mile?	Qw > 5 cfs?	Instream Water Right ID	Instream Water Right Q (cfs)	Qw > 1% ISWR?	80% Natural Flow (cfs)	Qw > 1% of 80% Natural Flow?	Interference @ 30 days (%)	Potential for Subst. Interfer. Assumed?
		☐	☐			☐		☐		☐
		☐	☐			☐		☐		☐
		☐	☐			☐		☐		☐
		☐	☐			☐		☐		☐
		☐	☐			☐		☐		☐
		☐	☐			☐		☐		☐
		☐	☐			☐		☐		☐
		☐	☐			☐		☐		☐

Application G-16014__________continued Date_____________7/28/2003

C3b. **690-09-040 (4):** Evaluation of stream impacts by total appropriation for all wells determined or assumed to be **hydraulically connected and less than 1 mile** from a surface water source. **Complete only if Q is distributed among wells.** Otherwise same evaluation and limitations apply as in C3a above.

	SW #		Qw > 5 cfs?	Instream Water Right ID	Instream Water Right Q (cfs)	Qw > 1% ISWR?	80% Natural Flow (cfs)	Qw > 1% of 80% Natural Flow?	Interference @ 30 days (%)	Potential for Subst. Interfer. Assumed?
			☐			☐		☐		☐
			☐			☐		☐		☐
			☐			☐		☐		☐
			☐			☐		☐		☐

Comments: **The well in not hydraulically connected to Threemile Creek.**

C4a. **690-09-040 (5):** Estimated impacts on hydraulically connected surface water sources greater than one mile as a percentage of the proposed pumping rate. Limit evaluation to the effects that will occur up to one year after pumping begins. This table encompasses the considerations required by 09-040 (5)(a), (c) and (d), which are not included on this form. Use additional sheets if calculated flows from more than one WAB are required.

Non-Distributed Wells													
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
Distributed Wells													
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
(A) = Total Interf.													
(B) = 80 % Nat. Q													
(C) = 1 % Nat. Q													
(D) = (A) / (B)		%	%	%	%	%	%	%	%	%	%	%	%
(E) = (A) / (C)		%	%	%	%	%	%	%	%	%	%	%	%

(A) = total interference as CFS, (B) = WAB calculated natural flow at 80% exceed. as CFS, (C) = 1% of calculated natural flow at 80% exceed. as CFS, (D) = total interference divided by 80% flow as a percentage (e.g., 22%, not 0.22), (E) = total interference divided by 1% flow as percentage.

Basis for impact evaluation: **The well in not hydraulically connected to Threemile Creek, therefore I did not complete this section.**

C4b. **690-09-040 (5) (b) The potential to impair or detrimentally affect the public interest is to be determined by the Water Rights Section.**

C5. ☐ **If properly conditioned,** the surface water source(s) can be adequately protected from interference, and/or ground water use under this permit can be regulated if it is found to substantially interfere with surface water:

i. ☐ The permit should contain condition #(s)_____;

ii. ☐ The permit should contain special condition(s) as indicated in "Remarks" below;

C6. **SW / GW Remarks**

Application G-16014 continued Date 7/28/2003

D. WELL CONSTRUCTION, OAR 690-200

D1. Well #: WASC 51102 51165 Logid: _____

D2. **THE WELL does not meet current well construction standards based upon:**

a. ☑ review of the well log;
b. ☐ field inspection by _____;
c. ☐ report of CWRE _____;
d. ☐ other: (specify) _____

D3. **THE WELL construction deficiency:**

a. ☐ constitutes a health threat under Division 200 rules;
b. ☑ commingles water from more than one ground water reservoir;
c. ☑ permits the loss of artesian head;
d. ☐ permits the de-watering of one or more ground water reservoirs;
e. ☐ other: (specify) _____

D4. **THE WELL construction deficiency is described as follows:** insufficient seal

11/3/03 MAP

D5. **THE WELL** a. ☐ **was,** *or* ☐ **was not constructed according to the standards in effect at the time of original construction or most recent modification.**

b. ☐ I don't know if it met standards at the time of construction.

D6. ☒ **Route to the Enforcement Section.** I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Department and approved by the Enforcement Section and the Ground Water Section.

THIS SECTION TO BE COMPLETED BY ENFORCEMENT PERSONNEL

D7. ☐ Well construction deficiency has been corrected by the following actions: _____

_____ _____, 200____.
(Enforcement Section Signature)

D8. ☐ **Route to Water Rights Section (attach well reconstruction logs to this page).**

DETAILED REPORT ON THE WATER AVAILABILITY CALCULATION

Water Availability as of 7/28/2003 for

THREEMILE CR > COLUMBIA R - AT MOUTH

Watershed ID #: 30410534 Basin: HOOD Exceedance Level: 80

Time: 10:32 Date: 07/28/2003

Month	Natural Stream Flow	CU + Stor Prior to 1/1/93	CU + Stor After 1/1/93	Expected Stream Flow	Reserved Stream Flow	Instream Water Rights	Net Water Available
1	0.74	0.23	0.00	0.51	0.00	0.00	0.51
2	2.50	0.41	0.00	2.09	0.00	0.00	2.09
3	2.57	0.54	0.00	2.03	0.00	0.00	2.03
4	1.09	2.08	0.00	-0.99	0.00	0.00	-0.99
5	0.82	5.34	0.00	-4.52	0.00	0.00	-4.52
6	0.51	4.42	0.00	-3.91	0.00	0.00	-3.91
7	0.40	1.33	0.00	-0.93	0.00	0.00	-0.93
8	0.30	0.68	0.00	-0.38	0.00	0.00	-0.38
9	0.40	0.72	0.00	-0.32	0.00	0.00	-0.32
10	0.30	0.09	0.00	0.21	0.00	0.00	0.21
11	0.40	0.10	0.00	0.30	0.00	0.00	0.30
12	0.55	0.15	0.00	0.40	0.00	0.00	0.40
Stor	1290	973	0	935	0	0	935

WASC 51102

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)
Instructions for completing this report are on the last page of this form

WELL ID # L **L56330**
(START CARD) # **101405**

(1) OWNER: Well Number:
Name **Mel Omeg**
Address **2965 Dry Hollow Road**
City **The Dalles** State **OR** Zip **97058**

(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 | Community | Industrial | X Irrigation | Thermal | Injection | Livestock | Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval | Yes | X No | Depth of Completed Well **575** ft.
Explosives used | Yes | X No | Type | Amount

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds
12"	0	18.5	Bentonite	0	18.5	13 Bags
10"	18.5	301				
8"	301	575				

How was seal placed: Method | A | B | C | D | E
X Other **Poured In Dry**
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:	8"	+2	301	.250	X		X	
Liner:								

Final location of shoe(s) **None**

(7) PERFORATIONS/SCREENS:

Perforations/Screens From	To	Slot size	Method Type Number	Material Diameter	Tele/pipe size	Casing	Liner

(8) WELL TESTS: Minimum testing time is 1 hour
Pump | Bailer | X Air | Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
80		575	1 hr.

Temperature of Water **71** Depth Artesian Flow found
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:

(9) LOCATION OF WELL by legal description:
County **Wasco** Latitude Longitude
Township **1N** N or S. Range **13E** E or W. of WM.
Section **33** **NW** 1/4 **NW** 1/4
Tax lot **4200** Lot Block Subdivision
Street Address of Well (or nearest address) **3465 Three Mile Rd., The Dalles, Or. 97058**

(10) STATIC WATER LEVEL:
110 ft. below land surface Date **08/24/2002**
Artesian pressure lb. per square inch Date

(11) WATER BEARING ZONES:
Depth at which water was first found **417**

From	To	Estimated Flow Rate	SWL
417	493	80	100

(12) WELL LOG:
Ground elevation

Material	From	To	SWL
Sandstone Hard Tan	0	24	
Cemented Gravel Multi Color	24	36	
Sandstone Fine Hard Tan	36	77	
Sandstone Med Hard Brown	77	115	
Sandstone Fine Hard Tan	115	140	
Basalt Fract. Med Brown	140	244	
Basalt Fract. Hard Gray	244	248	
Clay Yellow (Caving)	248	263	
Basalt Fract. Soft W/Green Claystone	263	274	
Basalt Vas. Soft Reddish	274	281	
Basalt Fract. Hard Gray	281	292	
Basalt Vas Med Reddish	292	298	
Basalt Fract. Med. Black	298	312	
Basalt Frac. Med Black W/yellow Claystone	312	337	
Basalt Fract. Hard Gray	337	341	
Basalt Brown Hard Black W/Green Claystone	341	347	
Basalt Fract. Hard Black	347	355	
Basalt Fract. Med Black W/Green Claystone	355	388	
Basalt Fract. Hard Black	388	404	

Continued on next page

Date started **07/25/2002** Completed **08/24/2002**

(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 my best knowledge and belief.

Signed WWC Number
Date

(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 **Charles Austin** WWC Number **790**
Date **08/29/1902**

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

STATE OF OREGON

WASC 51102

WATER SUPPLY WELL REPORT

(as required by ORS 537.765)

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

WELL ID # L L56330

(START CARD) # 101405

(1) OWNER:

Well Number:

Name Mel Omeg

Address 2965 Dry Hollow Road

City The Dalles State OR Zip 97058

(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 ft.

Explosives used | Yes | No Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds

How was seal placed Method | A | B | C | D | E | Other

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:								
Liner:								

Final location of shoe(s)

(7) PERFORATIONS/SCREENS:

Perforations Method

Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner

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

| Pump | Bailer | Air | Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time

Temperature of Water Depth Artesian Flow found

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:

(9) LOCATION OF WELL by legal description:

County Wasco Latitude Longitude

Township 1N N or S. Range 13E E or W. of WM.

Section 33 NW 1/4 NW 1/4

Tax lot 4200 Lot Block Subdivision

Street Address of Well (or nearest address) 3465 Three Mile Rd., The Dalles, Or. 97058

(10) STATIC WATER LEVEL:

ft. below land surface. Date

Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:

Depth at which water was first found

From	To	Estimated Flow Rate	SWL

(12) WELL LOG:

Ground elevation

Material	From	To	SWL
Basalt Fract. Vas Med. Reddish	404		
W/Green Claystone		417	
Basalt Fract. Hard Black W/B	417	493	
Basalt Med Black	493	575	110

Date started 07/25/2002 Completed 08/24/2002

(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 my best knowledge and belief.

Signed WWC Number

Date

(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 Charles Austin WWC Number 790

Date 08/29/1902

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

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)
Instructions for completing this report are on the last page of this form

WASC 51165

WELL ID # L L56330
(START CARD) # 148846

(1) OWNER:
Well Number:
Name Mel Omeg & Gary & Ann Copper
Address 2965 Dry Hollow Rd.
City The Dalles State OR Zip 97058

(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 704 ft.
Explosives used ☐ Yes ☒ No Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds
6"	575	704				

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E
☒ Other N/A
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:					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Final location of shoe(s)

(7) PERFORATIONS/SCREENS:
☐ Perforations Method
☐ Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour
☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
210		575	2 hr.

Temperature of Water 78 Depth Artesian Flow found
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:

(9) LOCATION OF WELL by legal description:
County Wasco Latitude 31.896 Longitude 12.544
Township 1N N or S. Range 13E E or W of WM
Section 33 NW 1/4 NW 1/4
Tax lot 4200 Lot Block Subdivision
Street Address of Well (or nearest address) 3465 Three Mile Rd., The Dalles, Or.

(10) STATIC WATER LEVEL:
240 ft. below land surface. Date 03/13/2003
Artesian pressure lb. per square inch Date

(11) WATER BEARING ZONES:
Depth at which water was first found 670

From	To	Estimated Flow Rate	SWL
670	699	210	240

(12) WELL LOG:
Ground elevation 1334

Material	From	To	SWL
Basalt Med. Black	575	684	
Basalt Soft Black	684	670	
Basalt Broken Soft Black	670	699	
Basalt Hard Gray	699	704	240

We started with about 25 GPM @ 71 deg. SWL @73 Ft. Hole 575 Ft. 8". We drilled 6" down to 704 ft. and increased the flow, we pulled out set an 8" plug to 575 ft. put in 5 yrds. of sand cement let set for three days drilled out cement and with the upper water shut off. We drilled out the 8" wooden plug. Flow was air tested for 2 hrs. @ 210 GPM and 78 deg.

Date started 02/15/2003 Completed 03/11/2003

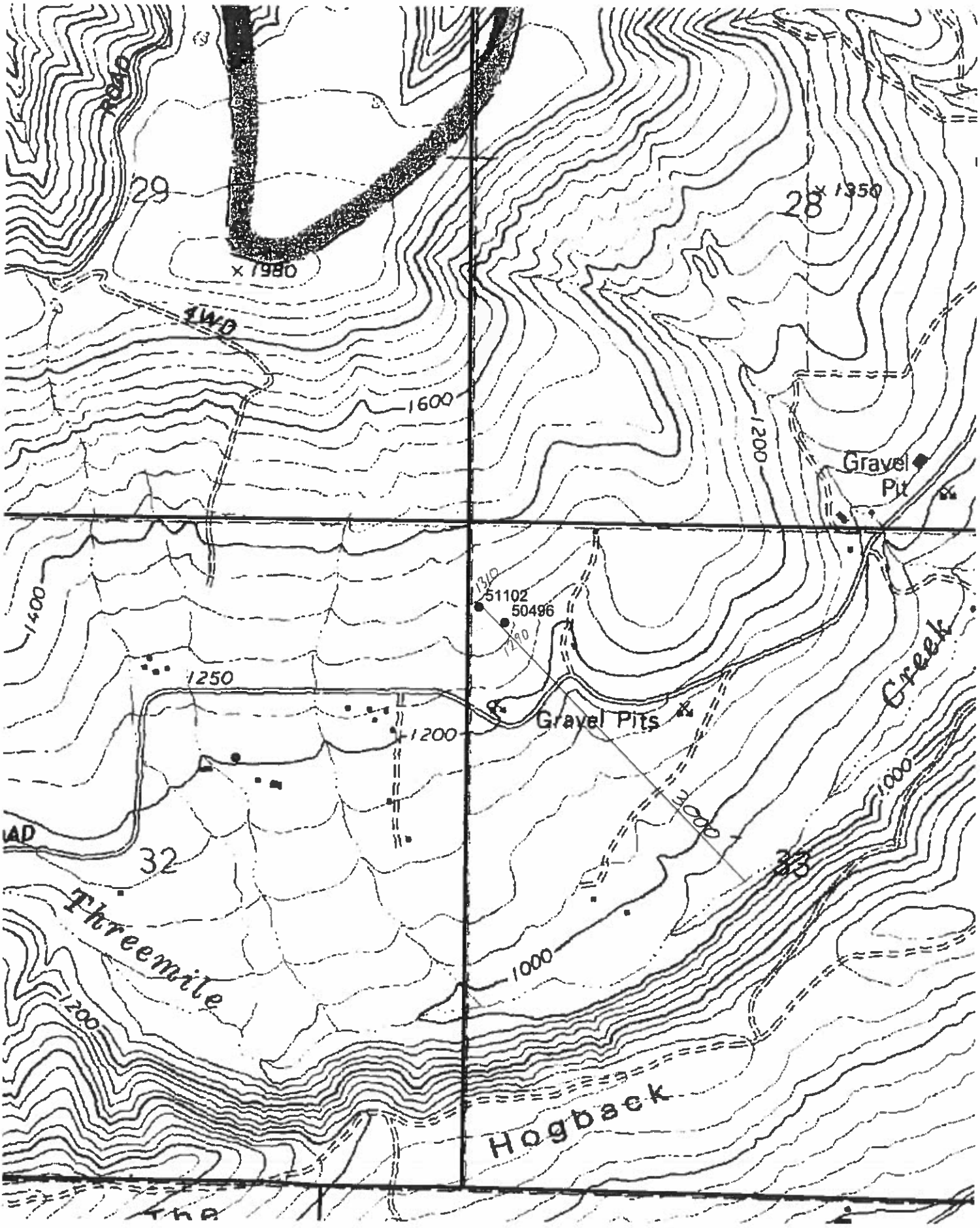
(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to my best knowledge and belief.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

(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.
WWC Number 790
Signed Date 03/13/2003
Charles Austin

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

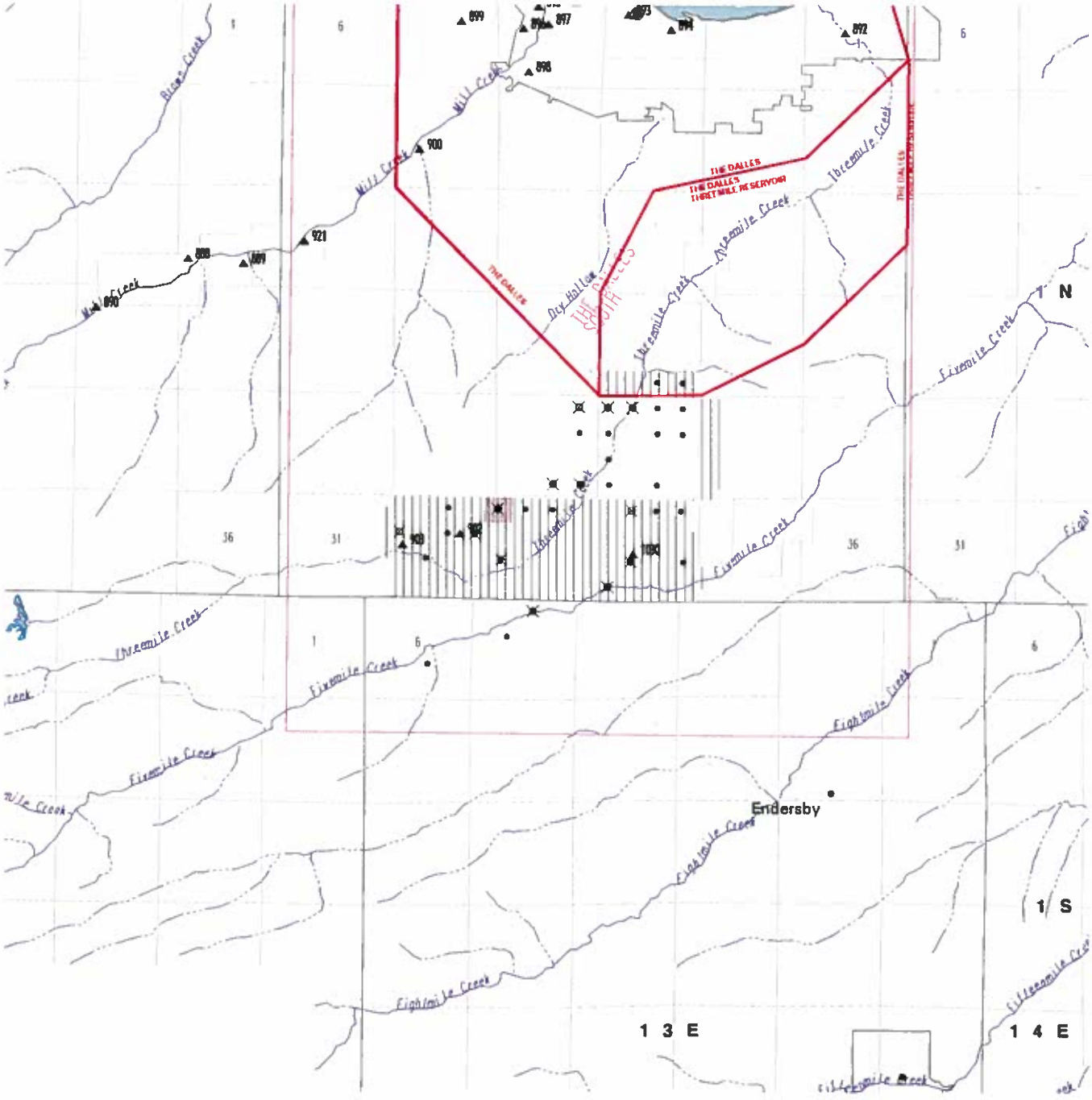
- Wellsgto.shp
- Wells.shp

Omeg Wells 01N/13E-33
(Scale: 1 inch = 1000 feet)



Wells in the vicinity of application G 16014

- Application well(s) in this 1/4-1/4 section
- Well(s) identified in this section from OWRD's well log database within 1 mi. radius of application well(s)
- Well(s) identified in this 1/4-1/4 section from OWRD's well log database within 1 mi. radius of application well(s)
- Permitted well(s) in this 1/4-1/4 section within 1 mi. radius of application well(s)
- Conditioned, permitted well(s) in this 1/4-1/4 section within 5 mi. radius of application well(s)
- OWRD Observation well and well-id within 5 mi. radius of application well(s)
- Critical GW Area
- Regulated GW Area



WELL LOGS WITHIN 1 MILE OF APPLICATION G 16014

ABANDON:	0
RECONDITIONED:	11
REPAIRED:	3
CONVERSION:	0
DEEPENINGS:	14
NEW CONSTRUCT:	76
COMMUNITY USE:	2
DOMESTIC USE:	65
INDUSTRIAL USE:	1
INJECTION USE:	0
IRRIGATION USE:	40
THERMAL USE:	0
LIVESTOCK USE:	0

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PERMITTED WELLS WITHIN 1 MILE OF APPLICATION G 16014

$RECNO	APPLICATION		PERMIT		CLAIM	LOC-QQ	USE_CODE
1	G	15254	G	15184	0	1.00N13.00E28NENE	IS
1	G	15254	G	15184	0	1.00N13.00E28NENE	DN
2	G	13673	G	12708	0	1.00N13.00E27NWNW	IC
2	G	13690	G	12929	0	1.00N13.00E27NWNW	IC
2	G	15254	G	15184	0	1.00N13.00E27NWNW	IS
2	G	15254	G	15184	0	1.00N13.00E27NWNW	DN
2	S	22295	S	17580	0	1.00N13.00E27NWNW	IR
2	S	39834	S	29656	0	1.00N13.00E27NWNW	IR
3	G	8638	G	8294	0	1.00N13.00E27NENW	FR
3	G	8638	G	8294	0	1.00N13.00E27NENW	IC
3	G	7186	G	6618	0	1.00N13.00E27NENW	IS
4	G	15719		0	0	1.00N13.00E28SWSE	IR
5	U	869	U	756	0	1.00N13.00E28SESE	IR
5	G	10912	G	10127	0	1.00N13.00E28SESE	IR
5	G	10912	G	10127	0	1.00N13.00E28SESE	IS
6	G	14607	G	13512	0	1.00N13.00E33NWNW	IR
7	G	10667	G	9762	0	1.00N13.00E34NENW	IR
8	G	712	G	620	0	1.00N13.00E32SWNW	IR
8	G	161	G	233	0	1.00N13.00E32SWNW	IR
8	G	161	G	233	0	1.00N13.00E32SWNW	IR
9	U	176	U	188	0	1.00N13.00E32SENE	IR
9	U	215	U	194	0	1.00N13.00E32SENE	IR
10	G	8639	G	8293	0	1.00N13.00E33NWSW	IR
10	G	1600	G	1466	0	1.00N13.00E33NWSW	IR
10	G	7916	G	8540	0	1.00N13.00E33NWSW	IS
11	G	1354	G	1233	0	1.00N13.00E34NESW	IR
12	G	6620	G	6198	0	1.00N13.00E34SWSW	IR
13	G	11014	G	10183	0	1.00S13.00E 5NWNE	IR

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NO CONDITIONED WELLS WITHIN 1 MILE OF APPLICATION G 16014

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APPLICATION G 16014 FALLS WITHIN THESE QUAD(S)

THE DALLES SOUTH

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The following OWRD Groundwater Management Areas are within the map extent:

$RECNO	NAME1	NAME2	SUB-AREA	STATUS
1	THE DALLES			CRIT
2	THE DALLES	THREEMILE RESERVOIR		CRIT

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