Water Right Conditions Tracking Slip

Groundwater/Hydrology Section

FILE ## G-17401

ROUTED TO: Water Rights

TOWNSHIP!

RANGE-SECTION: 235/39E -20

CONDITIONS ATTACHED? [Yes [] no REMARKS OR FURTHER INSTRUCTIONS:

Reviewer: Mike Zwart

WATER RESOURCES DEPARTMENT August 5 ,2000 MEMO Application G- 17461 TO: GW: Mike Zwart (Reviewer's Name) FROM: SUBJECT: Scenic Waterway Interference Evaluation YES The source of appropriation is within or above a Scenic Waterway NO YES Use the Scenic Waterway condition (Condition 7J) Per ORS 390.835, the Ground Water Section is able to calculate ground water interference with surface water that contributes to a Scenic Waterway. The calculated interference is distributed below. Per ORS 390.835, the Ground Water Section is unable to calculate ground water interference with surface water that contributes to a scenic waterway; therefore, the Department is unable to find that there is a preponderance of evidence that the proposed use will measurably reduce the surface water flows necessary to maintain the free-flowing character of a scenic waterway. DISTRIBUTION OF INTERFERENCE Calculate the percentage of consumptive use by month and fill in the table below. If interference cannot be calculated, per criteria in 390.835, do not fill in the table but check the "unable" option above, thus informing Water Rights that the Department is unable to make a Preponderance of Evidence finding. 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. Feb Jan Mar May Jun Jul Oct Nov Dec Apr Aug Sep

PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

| TO: | Water Rights Section | | | | | | | Dat | e August | 5, 2010 | | | | |
|---------------------------------|--|-------------------------------------|--|---|---|---|--|---|--|--|---|---------------------------|--|--|
| FROM | : | Grou | nd Water/ | Hydrology | Section _ | | ael Zwart | | | | | | | |
| SUBJI | CT. | Annl | ication G- | 17401 | | | iewer's Name Ipersedes re | eview of | | | | | | |
| 501531 | .C.1. | прр | ication G | 17401 | | 50 | ipersedes re | . v i c w 01 | | Date of Re | view(s) | | | |
| OAR 6 welfare to deter the pres | 90-310-1 , safety a mine who sumption | 30 (1) nd heal ether th criteria | The Depart th as descr e presumpt . This revi | ibed in ORS ion is establ ew is based | oresume th 8 537,525. lished. OA Lupon ava | out a proposi Departmen R 690-310- ilable info | sed groundw t staff review 140 allows t rmation and | v ground wat the proposed l agency pol | ensure the present applications use be modified icies in place a | under OA I or condi t the tim | R 690-31 tioned to e of eval u | 10-140 meet ration. | | |
| A. <u>GE</u> | <u>NERAL</u> | . INFC | <u> PRMATIO</u> | <u>ON</u> : A | applicant's | Name: | Joe and J | oyce McKa | <u>y</u> | County: | Malhet | ur | | |
| A1. | Applica | nnt(s) se | eek(s) <u>3.0</u> | cfs fro | m <u>two</u> | well | (s) in the | Malheur | | | | _ Basin, | | |
| | | | | | · | subl | oasin Qu | uad Map: <u>S</u> | humway Reser | voir | | | | |
| Λ2. | Propose | ed use: | Irr | igation, 379 |) ac/Stora | ige Sen | sonality: | 3/1 = 10/31 | l (lrr.); 11/1 – | 2/28 (Sto | rage) | | | |
| A3. | | | | | | | | | l wells as such | | | | | |
| Well | Log | id | Applicant | | oposed | Propos | | Location | | n, metes | | | | |
| 1 | MALII: | | Well # | | guifer* edrock | Rate(c | | ⁻ /R-S QQ-Q) 39E-20 SE-S | | N, 1200' E | | | | |
| 2 | Propo | | 2 | | edrock | 1.66. | | 39E-20 SE-S | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 5 | | | | | | | | | | | | | | |
| | um, CRB, | Bedroel | ļ. | | | | | | | | | | | |
| Well | Well Elev ft msl | First Wate: | r SWL | SWL Date | Well Depth (ft) | Seal Interval (ft) | Casing Intervals (ft) | Liner Intervals (ft) | Perforations Or Screens (ft) | Well Yield (gpm) | Draw Down (ft) | Test Type | | |
| 1 2 | 4484 4489 | 70 | 53 | 2/2/09 | 200 250 | 0-50 0-50 | 0-83 | None | None | 300 | | Air | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Use data | from app | lication | for proposed | l wells. | | | | | | | | | | |
| Λ4. | Comme | ents: <u>W</u> | | | | | | | et al, 1967. | | | | | |
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| | | | | | | | | | | | | | | |
| A5. 🖾 | (Not all | basin r | ules contai | n such prov | isions.) | | | | to the developm are not, activ | ent, c ass | ification nis applic | and/or ation. | | |
| A6. 🗌 | Name c | of admir ents: | nistralive ar | ea: | | | | | er limited by ar | administ | rative res | striction. | | |

| lication | G- <u>17401</u> | continued | Date: August 5, 20 | 010 |
|----------|-------------------------|--|--|--|
| GROU | ND WATER A | VAILABILITY CONSIDERATIONS | S, OAR 690-310-130, 400-010, | 410-0070 |
| Bas | sed upon availal | ole data, I have determined that ground water | er* for the proposed use: | |
| a. | period of th | ropriated, \square is not over appropriated, or \square ne proposed use. * This finding is limited to on as prescribed in OAR 690-310-130; | | |
| b. | will not or is limited | will likely be available in the amounts r to the ground water portion of the injury | equested without injury to prior way determination as prescribed in | ter rights. * This finding OAR 690-310-130; |
| c. | will not on | will likely to be available within the ca | pacity of the ground water resource | ; or |
| d. | i. 🛭 Tł ii. 🗌 Tł | operly conditioned, avoid injury to existing the permit should contain condition #(s)71 the permit should be conditioned as indicated the permit should contain special condition(s) | E, 7T in item 2 below. | d water resource: |
| a. | ☐ Condition | to allow ground water production from no c | deeper than ft. I | pelow land surface; |
| b. | ☐ Condition | to allow ground water production from no s | hallower than ft. l | pelow land surface; |
| c. | Condition water reserve | to allow ground water production only from voir between approximatelyft. | the ft. below land surf | ground ace; |
| d. | occur with | struction is necessary to accomplish one or this use and without reconstructing are cited the permit until evidence of well reconstruc- tion. | below. Without reconstruction, I re- | ecommend withholding |
| | | ary - as related to water availability—that is rights, not within the capacity of the resource | | |
| | | | | |
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| | elopment in this | lability remarks:There are no reasonal sarea, which is remote. Only two well log | | |
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| 0-09-0 | 40 (1) | Evaluatio | n of aqui | fer confinemen | nt: | | | | | | | |
|--|---|--|--|---|--|---|--|--|--|---|--|------------------|
| Well 1, 2 | Basa | It and inte | | r or Proposed A | | | C | Confined | | L | nconfine | d |
| | | | | | | | | | | | | |
| Basis fo | | | ement ev | aluation: <u>Th</u> | e water leve | el in both | local wells is | above | the de | pth that gr | oundwat | er |
| | | | | | | | | | | | | |
| assume | d to be | hydraulicated for PS | ally conne I. | ile from a surfa ected to the sur ater Name | | | | ible any H | stream ydraul Connec | ically | | ial |
| | 1 | Granite | Creek | | 4430 | 4482 | 150 | | NO A | SSUMED | YES | |
| 2 | i | Granite | | | 4430± | 4487 | 900 | | X | | | |
| | 1 | 1 | | | | | | | | | | |
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| The same of the sa | | + | | | | | | | | | | |
| | | | | | | | | | | | | |
| easis fo | r aqui | er hydrau | die conn | ection evaluat | ion: Both le | ocal wells | have water | levels w | ell hel | low the nea | rhv reael | |
| reek. I | ropos | ed well #2 | may hav | ection evaluat ve a considera | bly deeper | water leve | l than is esti | mated | here, b | oased on the | e reporte | |
| reek. I | ropos | ed well #2 | may hav | | bly deeper | water leve | l than is esti | mated | here, b | oased on the | e reporte | |
| reek. evel in | Propos MALI | ed well #2 I 52092 lo | may hav | ve a considera arby. It does | bly deeper y | water leve that groui | l than is esti idwater is p | mated rovidin | here, b g base | pased on the flow to loca | e reporte il creeks. | |
| reek. evel in | Propos MALI | ed well #2 I 52092 lo | may hav | ve a considera | bly deeper y | water leve that groui | l than is esti idwater is p | mated rovidin | here, b g base | pased on the flow to loca | e reporte il creeks. | |
| reek. evel in Vater / | Propos MALI Availat | ed well #2 I 52092 locality Basin | may have cated near | ve a considera arby. It does I(s) are locate | bly deeper venot appear to the deeper venot appe | water leve that groun Granite C | el than is estindwater is p r > S Fk Ma en determine | mated roviding | here, h g base ab Sta | pased on the flow to loca ar Cr (3101 | e reporte il creeks. 1619). ulically | d v |
| vel in Vater A 00-09-0 onnect re pertine require | Propos MALI Availat 040 (4) ed and nent to | ed well #2 1 52092 location bility Basin Evaluation that surfacte against | may have cated near the well ion of street water street 1% o | I(s) are located am impacts for some a surface we wource, and not f 80% natural | d within: _C or each well trater source. lower SW soflow for the | Granite C hat has be Limit eval ources to v pertinent | r > S Fk Ma en determine uation to inst which the stre Water Availa | Imated Inviding Iheur R Ind or assert the amount of th | ab State umed to ghts an er evaluasin (W | ar Cr (3101 o be hydraud minimum luation is tril | 1619). ulically stream flebutary. Co | ov on tri |
| vel in Vater A 00-09-0 onnect re pertine require | Propos MALI Availat 040 (4) ed and nent to | ed well #2 1 52092 location bility Basin Evaluation that surfacte against | may have cated near the well ion of street water street 1% o | l(s) are located am impacts for some a surface we wource, and not f 80% natural Any checked | d within: _C or each well trater source. lower SW so flow for the box indic | Granite C hat has be Limit eval ources to v pertinent | r > S Fk Ma en determine uation to inst which the stre Water Availa ell is assumed | Imated rovidin | ab Staumed t ghts an er eval asin (We the p | ar Cr (3101 o be hydraud minimum luation is tril | 1619). ulically stream flebutary. Cois not distause PSI. | ov on tri |
| vel in Vater A 00-09-0 onnect re pertine require | Propos MALI Availat 040 (4) ed and nent to | ed well #2 1 52092 location bility Basin Evaluation that surfacte against | may have cated near the well ion of street water street 1% o | I(s) are located am impacts for some a surface we wource, and not f 80% natural | d within: _C or each well trater source. lower SW soflow for the | Granite C hat has be Limit eval ources to v pertinent | r > S Fk Ma en determine uation to inst which the stre Water Availa | Imated Inviding Iheur R Ind or assert tream right tream und bility B: | umed t ghts an er eval asin (We the p | ar Cr (3101 o be hydraud minimum luation is tril | 1619). ulically stream flobutary. Co is not distause PSI. | ow om tril |

| Well | SW # | Well < 14 mile? | Qw > 5 cfs? | Instream Water Right ID | Instream Water Right Q (cfs) | Qw > % ISWR? | 80% Natural Flow (cfs) | Qw > 1% of 80% Natural Flow? | Interference @ 30 days (%) | Potential for Subst. Interfer. Assumed? |
|------|---------|-----------------|-------------|----------------------------------|---|-----------------|---------------------------------|---------------------------------------|----------------------------------|--|
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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:T | his section does | not apply. | | | | | | |

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), (b), (c) and (d), which are not included on this form. Use additional sheets if calculated flows from more than one WAB are required.

| Non-D | istributed | Wells | | | | | | | | | | | |
|---|--------------|-----------------|-----|--|-----|-----|-----|-----|-----|----------|-----|----------------|-----|
| Well | SW# | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| |] | % | % | % | % | % | % | % | % | % | % | % | % |
| Well Q | as CFS | | | | | | | | | | | | |
| Interfer | ence CFS | | | | | | | | | | | | |
| Distril | outed Well | | | | | | | | | | | | _ |
| Well | SW# | s Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| ***** | | % | % | % | % | % | % | % | % | <u> </u> | % | % % | % |
| Well Q | as CFS | | | | | | | | | | , , | , , | , , |
| | ence CFS | | | | | | | | | | | | |
| | | % | % | % | % | % | % | % | % | % | % | % | % |
| Well Q | as CFS | | _ | | | | | | - | | | | |
| CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR | ence CFS | | | | | | | | | | / | W. Carrier Co. | _ |
| | T | % | % | % | % | % | % | % | % | % | % | % | % |
| Well Q | as CFS | | | 21 W 101 1 2 21 W 15 AND | | | _ | | | | | | |
| Interfer | ence CFS | | | | | | | | | | | | |
| | | % | % | % | % | % | % | % | % | % | % | % | % |
| Well Q | | | | | | | | | | | | | |
| Interfer | ence CFS | | | | | | | | | | | | |
| | | % | % | % | % | % | % | % | % | % | % | % | % |
| Well Q | | | | | | | | | | | | | |
| Interfer | ence CFS | | | | , | | | | | | | | |
| | | % | % | % | % | % | % | % | % | % | % | % | %σ |
| Well Q | | | | _ | | | | | | | | | |
| Interfer | ence CFS | | | | | | | | | | | | |
| $(\Lambda) = Te$ | otal Interf. | , | | | | | | | | _ | | | |
| (B) = 80 | % Nat. Q | | | | | | | - | | | | | |
| (C) = 1 | % Nat. Q | | | | | | | | | | | | |
| (D) = (.3 | A) > (C) | | | | | | | | | | | | |
| (E) = (A | / B) x 100 | % | % | 0/0 | % | % | 0/0 | % | % | % | 9/0 | % | % |

(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) = highlight the checkmark for each month where (A) is greater than (C); (E) = total interference divided by 80% flow as percentage.

| b. 690-09-040 (5) (b) The potential to impair or detrimentally affect the public interest is to be deterr Rights Section. If properly conditioned, the surface water source(s) can be adequately protected from interference, and/o under this permit can be regulated if it is found to substantially interfere with surface water: i. | st 5, 2010 | Date: Augus | continued | on G- <u>17401</u> | plication |
|---|---|---------------------------------------|---|--|------------------|
| b. 690-09-040 (5) (b) The potential to impair or detrimentally affect the public interest is to be deterr Rights Section. If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or unseer this permit can be regulated if it is found to substantially interfere with surface water: | | | | | |
| December 2009-0440 (5) (b) The potential to impair or detrimentally affect the public interest is to be determined to Rights Section. If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or under this permit can be regulated if it is found to substantially interfere with surface water: | | | | isis for impact evalua | Basi |
| December 2009-040 (5) (b) The potential to impair or detrimentally affect the public interest is to be determined to the surface water source(s) can be adequately protected from interference, and/or under this permit can be regulated if it is found to substantially interfere with surface water: The permit should contain condition #(s) | | | | | |
| December 2009-040 (5) (b) The potential to impair or detrimentally affect the public interest is to be determined to the surface water source(s) can be adequately protected from interference, and/or under this permit can be regulated if it is found to substantially interfere with surface water: The permit should contain condition #(s) | | | | | |
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| 5. 690-09-040 (5) (b) The potential to impair or detrimentally affect the public interest is to be deterr Rights Section. If properly conditioned, the surface water source(s) can be adequately protected from interference, and/o under this permit can be regulated if it is found to substantially interfere with surface water: i | | | | | |
| 690-09-040 (5) (b) The potential to impair or detrimentally affect the public interest is to be deterr Rights Section. If properly conditioned, the surface water source(s) can be adequately protected from interference, and/of under this permit should contain condition #(s) | | | | | |
| 690-09-040 (5) (b) The potential to impair or detrimentally affect the public interest is to be deterr Rights Section. If properly conditioned, the surface water source(s) can be adequately protected from interference, and/of under this permit can be regulated if it is found to substantially interfere with surface water: | · · · · · · · · · · · · · · · · · · · | | | | |
| 5. 690-09-040 (5) (b) The potential to impair or detrimentally affect the public interest is to be deterr Rights Section. If properly conditioned, the surface water source(s) can be adequately protected from interference, and/of under this permit can be regulated if it is found to substantially interfere with surface water: | Albert de Mandage de la State | | | | companies pomena |
| 5. 690-09-040 (5) (b) The potential to impair or detrimentally affect the public interest is to be deterr Rights Section. If properly conditioned, the surface water source(s) can be adequately protected from interference, and/of under this permit can be regulated if it is found to substantially interfere with surface water: | | | | · · · · · · · · · · · · · · · · · · · | |
| Rights Section. If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or under this permit can be regulated if it is found to substantially interfere with surface water: | | | | | |
| Rights Section. If properly conditioned, the surface water source(s) can be adequately protected from interference, and/of under this permit can be regulated if it is found to substantially interfere with surface water: | | | | | |
| Rights Section. If properly conditioned, the surface water source(s) can be adequately protected from interference, and/of under this permit can be regulated if it is found to substantially interfere with surface water: | | | | | |
| ☐ If properly conditioned, the surface water source(s) can be adequately protected from interference, and/of 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: SW / GW Remarks and Conditions | to be determined by the Wa | tally affect the public interest is | The potential to impair or detrime | 90-09-040 (5) (b) T | |
| under this permit can be regulated if it is found to substantially interfere with surface water: i. | | | | Rights Section. | |
| under this permit can be regulated if it is found to substantially interfere with surface water: i. | | | | | |
| i. The permit should contain condition #(s) ii. The permit should contain special condition(s) as indicated in "Remarks" below: SW/GW Remarks and Conditions SW/GW Remarks and Conditions References Used: Local well logs; regional geologic maps; Geologic map of the Owvhee Region, Malha | erence, and/or ground water u | adequately protected from interfe | ned , the surface water source(s) can be | If properly condition | |
| ii. The permit should contain special condition(s) as indicated in "Remarks" below: SW/GW Remarks and Conditions SW/GW Remarks and Conditions References Used: Local well logs; regional geologic maps; Geologic map of the Owyhee Region, Malha | | ally interfere with surface water: | | | un |
| SW / GW Remarks and Conditions SW / GW Remarks and Conditions References Used: Local well logs; regional geologic maps; Geologic map of the Owyhee Region, Malha | | | nit should contain condition #(s) | i. The permi | |
| References Used: Local well logs; regional geologic maps; Geologic map of the Owyhee Region, Malha | | as indicated in "Remarks" below; | nit should contain special condition(s | 11. L The permi | |
| References Used: Local well logs; regional geologic maps; Geologic map of the Owyhee Region, Malha | | | | | |
| References Used: Local well logs; regional geologic maps; Geologic map of the Owyhee Region, Malha | | | Conditions | GW Remarks and C | SW / C |
| References Used: Local well logs; regional geologic maps; Geologic map of the Owyhee Region, Malho | | | Conditions | O W Wemarks and C | .,,,, |
| References Used: Local well logs; regional geologic maps; Geologic map of the Owyhee Region, Malho | | | | | |
| References Used: Local well logs; regional geologic maps; Geologic map of the Owyhee Region, Malho | | | | | |
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| Oregon, by Kittleman et al, 1967. | gion, Malheur County, | Geologic map of the Owyhee Re | | | |
| | | | al, 1967 | gon, by Kittleman et : | Orego |
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| Applic | ation G- <u>17401</u> | continued | Date: <u>August 5, 2010</u> |
|-------------|--|--|---|
| D. <u>W</u> | ELL CONSTRUCT | ION, OAR 690-200 | |
| D1. | Well #: | Logid: | |
| D2. | a. review of thb. field inspectc. report of C | tion by WRE ify) | dards based upon: |
| D3. | b. commingles c. permits the d. permits the | uction deficiency: a health threat under Division 200 rules; s water from more than one ground water loss of artesian head; de-watering of one or more ground wate | reservoir; |
| D4. | | | vs: |
| D5. | | _ | according to the standards in effect at the time of ent modification. |
| 1)6. [| | | ing issuance of the permit until evidence of well reconstruction at Section and the Ground Water Section. |
| THIS | SECTION TO BE | COMPLETED BY ENFORCEME | NT PERSONNEL |
| D7. [| Well construction de | ficiency has been corrected by the follow | /ing actions: |
| D8. [| | nt Section Signature) ghts Section (attach well reconstructio | n logs to this page). |

