PUBLIC INTEDEST DEVIEW FOR CONTIND WATER ADDITCATIONS

PUDI		LEKE	<u>51 KEV</u>	IEW FUP	GROU	ND WF	11	EK AFI		JINE	<u>2</u>			
ГО:		Wate	r Rights S	ection					Date	e	August 3	<u>31, 2009</u>		
ROM	I:	Grou	nd Water/	Hydrology	Section _			Zwart						
UBJI	FCT	Appl	ication G-	17218				r's Name sedes re	view of					
0 0 0 0 0	2011	1 ppn		1/210		54	pen	seaces re				Date of Re	view(s)	
DAR 6 <i>velfare</i> o deter	90-310-1 e, safety and rmine whe	30 (1) <i>I ind heal</i> ether th	<i>The Depart</i> <i>th as descr</i> e presumpt	<i>ibed in ORS</i> ion is establ	<i>presume the</i> 5 537.525. I lished. OAI	<i>at a propo.</i> Departmen R 690-310	s <i>ed §</i> it sta -140	off reviev allows t	ater use will v ground wat the proposed l agency pol	ter ap use l	plications be modifie	under OA d or cond	AR 690-3 itioned to	10-140 5 meet
4. <u>GE</u>	NERAL	INFC	ORMATIO	<u>DN</u> : A	pplicant's	Name:	H.	L. Wag	ner & Son	S	(County:	Union	
A1.	Applica	nt(s) se	eek(s) 0.5	125 cfs fro	m one	well	(s) i	n the	Grande R	onde				Basin
						subt			ad Map: Ir					_
A2. A3.			er data (att	t'	mber logs	for existing	ng w	vells; ma	<u>March 1 to</u> rk proposed			under lo	gid):	
Wel 1	Logi	id Applicant' s Well #		Proposed Aquifer*			1					on, metes and bounds, e.g. N, 1200' E fr NW cor S 36		
1	UNIO	156	1		CRB	0.512	5	1S/38E-25 NE-NE			4' S, '	4' S, 750' W fr NE cor S 25*		
2 3														
3 4														
5														
Alluvi	um, CRB,	Bedroc	k											
Well	Well Elev ft msl	First Water ft bls	r SWL	SWL Date	Well Depth (ft)	Seal Interval (ft)		Casing ntervals (ft)	Liner Intervals (ft)		rforations Screens (ft)	Well Yield (gpm)	Draw Down (ft)	Test Type
1	2752	512	-17.6	11/01/07	1150	0-1102	0-	1150	?	?	()	3500	?	F
														<u> </u>
			for proposed											
44. Sectior	Comme 1 24. Wel	ents: <u>T</u> Il is SO	his location W #868, se	n could be s o there is a	long recor	d of meas	ure	ments, b	on the quad ut some rec e well log do	ent v	isits have	question		
								р ·						
5. 🖂	Provisi	ions of	the <u>Grand</u>	ie Konde				Basin ru	les relative t	o the	uevelopm	ent, class	incation	and/or

management of ground water hydraulically connected to surface water \Box are, or \boxtimes are not, activated by this application. (Not all basin rules contain such provisions.) Comments:

Comments:

A6. Well(s) #_____, ____, ____, ____, tap(s) an aquifer limited by an administrative restriction. Name of administrative area: ______

Application G-_____continued

Date: August 31, 2009

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:
 - **is** over appropriated, **is not** over appropriated, or **is cannot be determined to be** over appropriated during any a. 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;
 - will not or will likely be available in the amounts requested without injury to prior water rights. * This finding b. is limited to the ground water portion of the injury determination as prescribed in OAR 690-310-130;
 - will not or will likely to be available within the capacity of the ground water resource; or c.
 - will, if properly conditioned, avoid injury to existing ground water rights or to the ground water resource: d.
 - i. \Box The permit should contain condition #(s)
 - The permit should be conditioned as indicated in item 2 below. ii.
 - iii. The permit should contain special condition(s) as indicated in item 3 below;
- **Condition** to allow ground water production from no deeper than ______ ft. below land surface; B2. a.
 - Condition to allow ground water production from no shallower than ______ ft. below land surface; b.
 - **Condition** to allow ground water production only from the c. __ 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: <u>The attached hydrograph appears to display a declining trend, but the</u> measurements since about 1990 have been spotty and some remarks have questioned the accuracy of the gauge. Since the well is currently being measured, I am not recommending inclusion of a measurement condition.

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

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

Wel l	Aquifer or Proposed Aquifer	Confined	Unconfined
1	Basalt of the Columbia River Basalt Group	\boxtimes	

Basis for aquifer confinement evaluation: CRB aquifers are typically confined; this well is flowing artesian.

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 ¹/₄ 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 Subst. Int Assume YES	erfer.
1	1	Grande Ronde River	2770±	2672	10800			\boxtimes

Basis for aquifer hydraulic connection evaluation: It is not known to what degree, if any, that ground water in the deep basalt aquifers contributes to surface water flows.

Water Availability Basin the well(s) are located within: Grande Ronde Riv. > Snake Riv. Ab Willow Cr. (30810407).

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 < ^{1/4} 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?

Date: August 31, 2009

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: <u>This section does not apply.</u>

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.

	istributed	Wells											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
													
Distrit	outed Well	ls											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q													
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q													
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
$(\mathbf{A}) = \mathbf{T}\mathbf{a}$	otal Interf.										_		
(B) = 80	% Nat. Q												
(C) = 1	% Nat. Q												
$(\mathbf{D}) = (\mathbf{A})$	(C)	\checkmark											
(E) = (A	/ B) x 100	%	%	%	%	%	%	%	%	%	%	%	%

	40 (5) (b) The potential to impair or detrimentally affect the public interest is to be determined by the W Section.
under thi	rly conditioned , the surface water source(s) can be adequately protected from interference, and/or ground water s permit can be regulated if it is found to substantially interfere with surface water: The permit should contain condition $\#(s)$ 7J
	The permit should contain special condition(s) as indicated in "Remarks" below;
SW / GW Re	
5117 G 11 IG	emarks and Conditions
	marks and Conditions
	emarks and Conditions
	marks and Conditions
	marks and Conditions
	marks and Conditions
	marks and Conditions
	marks and Conditions
	marks and Conditions
	marks and Conditions
	Jsed:Local well logs; local reviews; Development Potential of Ground Water in the Grande Ronde Vall
	Used: Local well logs; local reviews; Development Potential of Ground Water in the Grande Ronde Valle vy, Oregon, Ham, 1966: Geology and Ground-Water Resources of the Upper Grande Ronde River Basin,
	Jsed:Local well logs; local reviews; Development Potential of Ground Water in the Grande Ronde Vall

D. <u>W</u>	VELL CONSTRU	CTION, OA	R 690-200				_
D1.	Well #: <u>1</u>		Logid: _	UNIO 156			
D2.	a. review of b. field ins c. report of	of the well log pection by f CWRE					_;
D3.	b. commin c. permits d. permits	tes a health th gles water fro the loss of art the de-waterin	reat under Division 2 m more than one gro	ound water rese	ervoirs;		
D4.	THE WELL cor	istruction de	ficiency is described	d as follows: _			
D5.	THE WELL	ori	s, <i>or</i> □ was not co ginal construction of lon't know if it met s	r most recent n	nodification.	the time of	
D6.			ection. I recommended approved by the E			nce of well reconstruction	n

THIS SECTION TO BE COMPLETED BY ENFORCEMENT PERSONNEL

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

(Enforcement Section Signature)

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

_____, 200_____.