## PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:		Water	r Rights S	ection				Date	e Novemb	er 18, 20	009	
FROM	[:	Grou	nd Water/	Hydrology	Section _		ael Zwart					
SUBJE	ECT·	Appli	cation G-	17251			iewer's Name persedes re	view of				
SCEUL	201.	1 <b>-</b> PP11	· curon o	1,201		Su	persecues re	· · · · · · · · · · · · · · · · · · ·		Date of Rev	view(s)	
OAR 6 welfare to deter	<b>90-310-1</b> , safety a mine who	30 (1) 7 and heal ether the	The Depart th as descr e presumpt	ibed in ORS ion is establ	presume the 537.525. ished. OA	at a propos Departmen R 690-310-	sed groundw t staff reviev -140 allows	w ground wat the proposed	ensure the pres ter applications use be modifie icies in place a	under OA d or cond	AR 690-3 itioned to	10-140 meet
A. <u>GE</u>	NERAL	INFO	RMATIO	<u>ON</u> : A	pplicant's	Name:	Trudy Lo	wery		County:	Baker	
A1.	Applica	ınt(s) se	eek(s) <u>0.1</u>	448 cfs from	m <u>one</u>							_Basin,
						subb	oasin Qu	ıad Map: <u>B</u>	aker City			
A2. A3.									October 31 d wells as such	under le	aid).	
A3.	Wen an	iu aquii	Applican	t,					wens as such	under 10	giu).	
Wel l	Log	id	S	PIC	oposed juifer*	Propos Rate(cf		Location //R-S QQ-Q)		ion, metes and bounds, e.g. 0' N, 1200' E fr NW cor S 36		
1			Well # Alluvium		· `	0.1448 9S/40E-19 NW-NE			1190' S, 1155'E fr N ¼ cor S 19			
2												
3 4												
5	CDD	D 1 1										
* Alluvı	um, CRB,	Bedrocl	K									
Well	Well Elev ft msl	First Water ft bls	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	3492	115	45	11/05/96	220	0-19	0-220	None	None	40+		Air
										<u> </u>		
Use data	a from app	lication	for proposed	d wells.								
would	water-be preclude	aring z pumpi	one is 205	-220 feet. Trate. It ma	he well m	ay not pro	duce the de	sired rate o	forations or sc r may produce 5± feet of casir	sand in o	quantitie	s that
velocity	y anu mc	i case l	ne wen s e	menency.								
A5. 🛛	manage (Not all	ment of basin r	ules contai	ater hydraul n such prov	ically com isions.)	nected to su	ırface water	ules relative t	to the developm <b>Are not</b> , active	ent, class ated by the	ification a	and/or cation.
A6. 🗌	Name o	f admir	nistrative an	rea:,	.,	,	, ta	p(s) an aquif	er limited by an	administ	rative res	triction.

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Applic	ation	G- <u>17251</u>	continued	Date: <u>Nover</u>	nber 18, 2009
В. <u>GF</u>	ROUN	ND WATER AVAI	LABILITY CONSIDERATION	IS, OAR 690-310-130, 400-	<u>010, 410-0070</u>
B1.	Bas	sed upon available da	ata, I have determined that ground w	ater* for the proposed use:	
	a.	period of the pro	nted, is <b>not</b> over appropriated, or posed use. * This finding is limited prescribed in OAR 690-310-130;		
	b.		vill likely be available in the amount e ground water portion of the inju		<u> </u>
	c.	☐ will not or ☒	will likely to be available within the	capacity of the ground water re	source; or
	d.	i. The per	y conditioned, avoid injury to existing the should contain condition #(s) must should be conditioned as indicated that should contain special conditions.	ed in item 2 below.	
B2.	a.	Condition to al	low ground water production from no	o deeper than	ft. below land surface;
	b.	Condition to al	low ground water production from no	o shallower than	ft. below land surface;
	c.	Condition to all water reservoir b	ow ground water production only from	om the ft. below la	ground ground surface;
	d.	to occur with thi	etion is necessary to accomplish one s use and without reconstructing are ance of the permit until evidence of vater Section.	cited below. Without reconstru	action, I recommend
			as related to water availability—that, not within the capacity of the resour		reconstruction (interference w/
В3.			ty remarks: <u>There is relatively li</u> y municipal wells are developing u		water, other than for domestic

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water le	evel is	well above	the wat	er-bearing z	zone.								
horizoi assume	ntal dis ed to be	tance less	than ¼ m ally conn	ile from a su	and hydraulic rface water so surface water	ource that p	roduce water	fron	n an unc	onfined aqui	ifer shal	ll be	nil
Well SW #		Sı	ırface Wa	nter Name	GW Elev ft msl	lev Elev Distance		Hydraulically Connected? YES NO ASSUMED				Potential for Subst. Interfer. Assumed?	
1	1	Powder	River		3447	3450	6300				YE	]	]
								<u> </u>		旹		1	
								Ē					
										<u> </u>	<u> </u>	_	
connect clays ov	<u>ion wi</u> erlyin;	th the loca g it indica	l reach o te that h	of the river,	nation: The h but the depth nection is lik efficient.	of the wa	ter-bearing	zone	at the v	well and the	thickno	ess of	
connect clays ov the hyd	ion wi erlying raulic	th the loca g it indica connectio	l reach ( te that h n is likely	of the river, ydraulic con y to be most	but the depth mection is lik	of the wa cely to be in	ter-bearing nefficient wi	zone th th	at the vector at	well and the reach. It is	thickno unclear	ess of	
water A 590-09- connect that are Compar	raulic  Availal  O40 (4 ed and pertine e the re	th the loca g it indica connectio bility Basi b: Evaluat I less than nt to that sequested ra	n the well ion of str 1 mile frourface water agains	of the river, ydraulic con y to be most  Il(s) are loca eam impacts om a surface ater source, a t the 1% of 8	but the depth nnection is lik efficient.	Powder R that has be Limit eva SW source ow for the	iver > Snake een determine luation to insect to which the	e Rivered or stream e stream e	er abov assumen rights eam und	e Rock Creed to be hydrand minimuler evaluation lity Basin (W	thicknounclear  ek aulicall m strear n is tribu //AB). I	y m flow utary.	ws
water A  South the hyd  Water A  Compact that are Compar distribut	raulic  Availal  O40 (4 ed and pertine e the re	th the loca g it indica connectio bility Basi b: Evaluat I less than nt to that sequested ra	n the well ion of str 1 mile frourface water agains	eam impacts on a surface ater source, at the 1% of 8 r each well.  Instream Water Right	ted within:  for each well water source and not lower 30% natural fl Any checked  Instream Water Right Q	Powder R that has be Limit eva SW source ow for the	iver > Snake een determine luation to insees to which the pertinent Wa icates the we  80%  Natural Flow	Rive  Rive  Rive  Qv  of N	er abov  assumed rights eam und availabil assumed v > 1% 80% atural	e Rock Creed to be hydrand minimuler evaluation lity Basin (W	ek  aulically m stream is tribu //AB). I potentia	when  y m flow utary. If Q is al to c  Potent or Sub Interfet	ws au ia
Water A  590-09-  connect that are Compar distribut PSI.	Availal  O40 (4) ed and pertine e the re ted by v	th the loca g it indica connectio bility Basi b: Evaluat I less than int to that sequested ra well, use fi	n the wellion of str 1 mile fraurface wate agains all rate for	of the river, ydraulic con y to be most  ll(s) are loca eam impacts om a surface ater source, a t the 1% of 8 r each well.  Instream Water	ted within:  for each well water source and not lower 80% natural fl Any checked  Instream Water	Powder R  that has be . Limit eva SW source ow for the \[ \sum_{box} \] box ind	iver > Snake een determine duation to insect to which the pertinent Waicates the ween 80% Natural	Rive  Rive  Rive  Qv  of N	er above assumed rights eam und availabil assumed v > 1% 5 80%	e Rock Creed to be hydrand minimum ler evaluation lity Basin (Walton have the Interference @ 30 day	ek  aulically m stream is tribu //AB). I potentia	when  when	ws au ia
Water A  590-09-  connect that are Compar distribut PSI.	Availal  O40 (4) ed and pertine e the re ted by v	th the loca g it indica connectio bility Basi b: Evaluat I less than int to that sequested ra well, use fi	n the wellion of str 1 mile fraurface wate agains all rate for	eam impacts on a surface ater source, at the 1% of 8 r each well.  Instream Water Right	ted within:  for each well water source and not lower 30% natural fl Any checked  Instream Water Right Q	Powder R  that has be . Limit eva SW source ow for the \[ \sum_{box} \] box ind	iver > Snake een determine luation to insees to which the pertinent Wa icates the we  80%  Natural Flow	Rive  Rive  Rive  Qv  of N	er abov  assumed rights eam und availabil assumed v > 1% 80% atural	e Rock Creed to be hydrand minimum ler evaluation lity Basin (Walton have the Interference @ 30 day	ek  aulically m stream is tribu //AB). I potentia	when  y m flow utary. If Q is al to c  Potent or Sub Interfet	vs ia ia os er
Water A  590-09-  connect that are Compar distribut PSI.	Availal  O40 (4) ed and pertine e the re ted by v	th the loca g it indica connectio bility Basi b: Evaluat I less than int to that sequested ra well, use fi	n the wellion of str 1 mile fraurface wate agains all rate for	eam impacts on a surface ater source, at the 1% of 8 r each well.  Instream Water Right	ted within:  for each well water source and not lower 30% natural fl Any checked  Instream Water Right Q	Powder R  that has be . Limit eva SW source ow for the \[ \sum_{box} \] box ind	iver > Snake een determine luation to insees to which the pertinent Wa icates the we  80%  Natural Flow	Rive  Rive  Rive  Qv  of N	er abov  assumed rights eam und availabil assumed v > 1% 80% atural	e Rock Creed to be hydrand minimum ler evaluation lity Basin (Walton have the Interference @ 30 day	ek  aulically m stream is tribu //AB). I potentia	when  y m flow utary. If Q is al to c  Potent or Sub Interfet	vs ia ia os er
Water A  590-09-  connect that are Compar distribut PSI.	Availal  O40 (4) ed and pertine e the re ted by v	th the loca g it indica connectio bility Basi b: Evaluat I less than int to that sequested ra well, use fi	n the wellion of str 1 mile fraurface wate agains all rate for	eam impacts on a surface ater source, at the 1% of 8 r each well.  Instream Water Right	ted within:  for each well water source and not lower 30% natural fl Any checked  Instream Water Right Q	Powder R  that has be . Limit eva SW source ow for the \[ \sum_{box} \] box ind	iver > Snake een determine luation to insees to which the pertinent Wa icates the we  80%  Natural Flow	Rive  Rive  Rive  Qv  of N	er abov  assumed rights eam und availabil assumed v > 1% 80% atural	e Rock Creed to be hydrand minimum ler evaluation lity Basin (Walton have the Interference @ 30 day	ek  aulically m stream is tribu //AB). I potentia	when  y m flow utary. If Q is al to c  Potent or Sub Interfet	ws au ia

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Unconfined

Confined

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Wel

\_\_\_\_continued

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

Sand and gravel

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

Aquifer or Proposed Aquifer

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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:	not apply.							

Comments:	This 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-E	Distributed	Wells											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
			l						l				
Distri	buted Wel	ls											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfe	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfe	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well O	as CFS												
	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
,	ence CFS												
$(\mathbf{A}) = \mathbf{T}$	otal Interf.												
(B) = 80	% Nat. Q												
(C) = 1	% Nat. Q												
( <b>D</b> ) = (A	A) > (C)	<b>√</b>											
$(\mathbf{E}) = (\mathbf{A}$	(A / B) x 100	%	%	%	%	%	%	%	%	%	%	%	%

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CFS; (D) = highlight the check  Basis for impact eva  River basin indicates	cmark for each month where (A) is graduation: This section applies, but that interference will be well be	at 80% exceed. as CFS; (C) = 1% of calculated natural flow at 80% exceed. as eater than (C); (E) = total interference divided by 80% flow as percentage. ut past experience with the Hunt/Wozniak model in the Powder elow 1% of natural streamflow. Also, as stated above, it is not ydraulic connection with the river.
	• • • • • • • • • • • • • • • • • • •	
C4b. <b>690-09-040</b> (5) (b) Rights Section.	The potential to impair or detr	imentally affect the public interest is to be determined by the Water
		can be adequately protected from interference, and/or ground water use
i ☐ The pe	rmit should contain condition #(s)	ostantially interfere with surface water: ion(s) as indicated in "Remarks" below;
n. 🔲 The pe	min should contain special conditi	ion(s) as indicated in Kemarks below;
C6. SW / GW Remarks an	d Conditions	
<u></u>		
References Used: <u>Lo</u> Baker County, Oregon		onal geologic mapping; Ground-Water Resources of Baker Valley,

	Well #:1	Logid: BAKE 50139
D2.	THE WELL does not	meet current well construction standards based upon:
D 2.	a. review of the	•
	b.  field inspectio	n by
	c report of CW1	KE
	d. other: (specify	r)
D3.	THE WELL construc	tion deficiency:
	<u> </u>	ealth threat under Division 200 rules;
		vater from more than one ground water reservoir;
		ss of artesian head; -watering of one or more ground water reservoirs;
	<b>=</b> •	y)
D4.	THE WELL construe	tion deficiency is described as follows:
D4.	THE WELL CONSTRUC	tion deficiency is described as follows.
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.		ment Section. I recommend withholding issuance of the permit until evidence of well reconstruction ment and approved by the Enforcement Section and the Ground Water Section.
THIS	S SECTION TO BE CO	OMPLETED BY ENFORCEMENT PERSONNEL
D7.	☐ Well construction defic	ciency has been corrected by the following actions:
	-	
	_	-
		200
	(Enforcement	Section Signature)

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