## PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:		Wate	r Rights S	ection				Date	e <b>Septem</b> l	<b>September 10, 2009</b>					
FROM	[:	Grou	nd Water/	Hydrology	Section _	Mich	ael Zwart								
SUBJE	ECT:	Appli	ication G-	17117		Reviewer's Name Supersedes review of January 5, 2009  Date of Review(s)									
OAR 6 welfare to deter the pres	90-310-1, safety a mine who sumption	30 (1) and heal ether the criteria	The Depart th as descr e presumpt	ribed in ORS tion is estable ew is based	oresume the 5 537.525. Iished. OA	at a propos Departmen R 690-310- ilable info	sed groundw t staff review -140 allows rmation and	w ground wat the proposed d agency pol	ensure the prester applications use be modified licies in place a	servation under OA d or cond	of the pua AR 690-3 itioned to e of evalu	10-140 o meet uation.			
A1.							(s) in the	Malheur	omiocon			_Basin,			
A2. A3.	Propose	ed use:	Irr		acres	Seas	sonality:	February	15 to Septembed wells as such		gid):				
Wel 1	Logid Applicant'  Well #			A.	oposed quifer*	Propos Rate(ct	fs) (T	Location //R-S QQ-Q)	2250' 1	n, metes a N, 1200' E					
1 2	MALH 52757 1			В	edrock	0.38	0.38 16S/43E-24 SW-NE			3725' N, 4000' E fr SW cor S 24					
3															
4															
5 * All	um, CRB,	D - d	1-												
* Alluvi									_		T				
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	2515	75	65	8/5/05	126	0-26	0-26	None	None	50	7	P			
A4.	Comm	ents: <u>T</u>	for proposed his well is the Glenns		o replace t	he three w	ells in the o	riginal filing	g. It develops a	deeper :	aquifer i	<u>n</u>			
lacusti	те исро		ne Greinis	1011 y 1 011	mation.										
A5. 🛛	manage (Not all	ment of basin i	ules contai	ater hydraul in such prov	ically conr isions.)	nected to su	ırface water	ules relative t	to the developm <b>X are not</b> , activ	ent, class vated by t	ification his applic	and/or cation.			
A6. 🗌	Name o	of admin	nistrative a	rea:				p(s) an aquif		administ	rative res	triction.			

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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 an 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) TC.  ii. □ The permit should contain condition 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 only from the 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 free 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): □ section water availability remarks: SOW # 569 (MALH 252) is relatively close and the water level may either be declining slightly or responding to recent or nearby pumping in recent years. Marshall Gannett questioned the suitability of this well based on a lack of information about the water-bearing zone (likely the Glenus Ferry Format	Applic	ation	G- <u>17117</u>	continued	Date: Sept	tember 10, 2009
a.	В. <u>GI</u>	ROUN	ND WATER AVA	ALABILITY CONSIDERATIONS	S, OAR 690-310-130, 40	<u>0-010, 410-0070</u>
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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)		b.				
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c. Condition to allow ground water production only from the	B2.	a.	Condition to	allow ground water production from no	deeper than	ft. below land surface;
d.		b.	Condition to	allow ground water production from no	shallower than	ft. below land surface;
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Wel			Aquifer	or Proposed	Aquifer		C	Confine	ed	τ	Unconfine	1	
All	Clay	stone and	some into	erbedded saı	nd (Tig)			$\boxtimes$					
								<u> </u>			<u> </u>		
								$\dashv$			_ <del> </del>		
				aluation: <u>G</u> uous aquife				this fo	ormati	on as lacust	rine siltste	<u>one</u>	
horizon assume	tal dis d to be evalua	tance less to hydraulicated for PS	han ¼ mi ally conno I.	listance to, an le from a sur- ected to the so ter Name	face water so	urce that p	oroduce water clude in this t Distance	r from able a	an und ny stre Hydra	confined aqui	fer shall be beyond on Potent Subst. I	e mile ial fo nterfe	
	#				ft msl	ft msl	(ft)	YES		ASSUMED	Assumed? YES NO		
1	1	Willow	Creek		2450	2438	3800		$\square$				
									一一	$\overline{\Box}$			
									$\underline{\underline{\sqcup}}$				
									<u> </u>	<u> </u>	<u> </u>		
									Ш				
Nater A	depos Availal 040 (4 ed and	its and the bility Basing: Evaluating less than	n the well on of stre 1 mile fro	ection evalua in indirect a l(s) are locat eam impacts from a surface	nd inefficier ed within: or each well	willow Cr	ic connection  ceek > Malho  ceen determine	n with eur Ri ed or a stream	ver at	mouth (310) d to be hydrand minimum	11901). aulically m stream f	lows	
hat are p Compare	e the re	equested ra	te against	tter source, at the 1% of 80 reach well. A	nd not lower )% <i>natural</i> fl	SW source ow for the	pertinent Wa	ater A	vailabi	lity Basin (W	(AB). If (	is no	
hat are p Compare listribute	e the re	equested ra	te against	the 1% of 80	nd not lower )% <i>natural</i> fl	SW source ow for the	pertinent Wa	Qw of	vailabi	lity Basin (W	Potential t  Compose For S  Into	is no	
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Application G-<u>17117</u> continued

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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 #	w > 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:								

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	Distributed	Wells											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
				l									
Distril	buted Wel	ls											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	rence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
	rence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
$(\mathbf{A}) = \mathbf{T}\mathbf{c}$	otal Interf.												
(B) = 80	% Nat. Q												
(C) = 1	% Nat. Q												
( <b>D</b> ) = (A	A) > (C)	<b>✓</b>	<b>√</b>	<b>√</b>	<b>√</b>	$\checkmark$	<b>√</b>						
	A / B) x 100	%	%	%	%	%	%	%	%	%	%	%	%

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CFS; (D) = highlight the chec	kmark for each month where (A) is g	at 80% exceed. as CFS; (C) = 1% of calculated natural flow at 80% exceed. as greater than (C); (E) = total interference divided by 80% flow as percentage.
C4b. 690-09-040 (5) (b) Rights Section.	The potential to impair or det	trimentally affect the public interest is to be determined by the Water
under this permit ca	an be regulated if it is found to su	can be adequately protected from interference, and/or ground water use abstantially interfere with surface water:  (s)
C6. SW / GW Remarks an	d Conditions	
References Used: G-16975.	ound Water Report #34 by Ma	arshall Gannett; local well logs; local reviews, especially G-13026 &

D. <u>V</u>	WEI	LL CO	NSTRUC	CTION,	OAR 690	<u>-200</u>												
D1.		Well #:	1			Logid:	M	ALH	52757	7								
D2.		a.	review o field insp report of	f the well pection by CWRE	l log; y	well constr												; ;
D3.		THE W a.	constitut comming permits t permits t	es a healt gles wate the loss o the de-wa	r from more f artesian he atering of or	der Divisior e than one g	round	l wate	r resei er rese	ervoirs	s;							
D4.		THE W	VELL con	struction	n deficiency	y is describ	ed as	follov	ws:									
D5.		THE W	VELL	a. 🗌		was not construction							ds in ef	fect at	the tin	ne of		
				b. 🛚	I don't kn	now if it met	t stanc	dards :	at the 1	time c	of con	structio	on.					
D6.	_					I recommend to be a second of the second by the										well re	constr	ruction
TH	IS S	ECTIO	ON TO B	E COM	PLETED	BY ENFO	ORC	EME	NT P	PERS	ONN	IEL						
D7		Wall as	nstruction	deficien	av has baar	a appropriate de la	sv. tha	follo	uina o	ation	<b>.</b> .							
<i>D</i> /.	Ш	wen co	nstruction	dencien	cy nas been	orrected b	by the	101101	wing a	actions	s:							
		-																
										_							, 20	00
			(Enforce	ment Sec	tion Signat	ure)												
D8.		Route	to Water	Rights S	ection (atta	ach well re	const	ructio	on logs	s to th	nis pa	ge).						

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Application G-17117 continued