# Water Right Conditions Tracking Slip

Groundwater/Hydrology Section

ROUTED TO: Water Rights - Jeins TOWNSHIP
TOWNSHIP! RANGE-SECTION: 155/33E-36/16 CONDITIONS ATTACHED? Lives [] no
REMARKS OR FURTHER INSTRUCTIONS:
Reviewer: Mike Zunt

Bas	sed upon available data, I have determined that ground water* for the proposed use:
a.	is over appropriated, is not over appropriated, or is 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.	$\square$ will not or $\square$ will likely to be available within the capacity of the ground water resource; or
d.	<ul> <li>will, if properly conditioned, avoid injury to existing ground water rights or to the ground water resource:</li> <li>i.</li></ul>
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):
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Date: February 14, 2012

Application G-17527 continued

## PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:		Wate	r Rights S	ection				Dat	eF <u>e</u> l	oruary 14,	2012	
FROM	:	Grou	nd Water/	Hydrology	Section _		ael Zwart					
SUBJE	CT:	Appli	cation G-	17527			ewer's Name persedes re	eview of				
JOBIL		1 <b>.</b> pp1.	outron o	1,02,		54	persones re			Date o	f Review(s)	
OAR 69 welfare, to deter the pres	90-310-1 safety amine who umption	30 (1) and heal ether the criteria.	The Depart th as descr e presumpt . This revie	ibed in ORS ion is establ ew is based	presume the 537.525. I ished. OAR upon avai	at a proposi Department R 690-310- lable infor	ed groundw t staff reviev 140 allows t mation and	vater use will v ground wat the proposed d agency poli	er applica use be mo icies in pl	tions under odified or coace at the t	OAR 690-3 nditioned to ime of eval	10-140 meet uation.
			RMATIO	_				d Stephanie		County	: <u>Harne</u>	
A1.	• •			4 cfs from	m <u>one</u>			Malheur I				Basin,
		Harney	Valley			subb	asin Qı	ıad Map: <u>N</u>	ew Princ	eton		
A2.								March 1 to				
A3.	Well an	d aquif	er data (att	ach and nu	mber logs	for existin	g wells; ma	rk proposed	wells as	such under	logid):	
Well	Log	id	Applicant Well #		oposed quifer*	Propose Rate(cf		Location /R-S QQ-Q)		ocation, me 2250' N, 1200		
1	HARN	1867	W21 #		Fill Seds.	3.34		33E-36 SW-S		156' N, 3566		
2												
3 4												
5												
	ım, CRB,	Bedrock										
Well	Well Elev ft msl	First Water ft bls	I III DIE I	SWL Date	Well Depth (ft)	Seal Interval (ft)	Casing Intervals (ft)	Liner Intervals (ft)	Perfora Or Scro	eens Yie	ld Down	Test Type
1	4122	24	30	3/17/91	175	0-20	0-135	None	None	800		P
		_										
Use data	from app	lication 1	for proposed	wells								
A4.					ids: Note t	hat NE co	rner Sec. 1	is offset from	n the SE	corner Sec.	36.	<del>_</del>
A5. 🛚	manage (Not all	ment of basin r	ules contai	iter hydrauli n such provi	cally conne sions.)	ected to sur	face water	ules relative t	are not,	activated b	y this applic	cation.
A6. 🗌	Well(s) Name o Comme	f admin	istrative ar	ea:				up(s) an aquif				striction.

Version: 08/15/2003

Application G-17527	continued	Date: February 14, 2012
Application o 17527	continucu	Date. I columny 14, 2012

### 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	Interbedded sand, gravel and clay, likely Qal		
Racic fo	raquifar confinement avaluation. The static water level for	an most walls in this area is	similar to the depth that

Basis for aquifer confinement evaluation: The static water level for most wells in this area is similar to the depth that	
groundwater was first encountered in the borehole.	

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		Potentia Subst. In Assum YES	terfer.
1	1	Malheur Lake	4092	4095±	8000*				$\boxtimes$
	l	-							
			_						

Basis for aquifer hydraulic connection evaluation:	*Both the surface water elevation and distance to the well will	vary
	er penetrated ultimately discharges to Malheur Lake.	

Water Availabilit	y Basin the	e well(s)	are located wi	ithin: No	) WAB	data in	this area.

C3a. 690-09-040 (4): Evaluation of stream impacts for <u>each well</u> 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 \overline{\text{D}} 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?

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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: _	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-D	istributed	Wells											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfere	ence CFS		_										_
D:	4 1 337 1												
Well	uted Well SW#		Feb	Mon	A	Mari	I	T., 1	<b>A</b>	C	0-4	Nt	D
wen	<u> </u>	Jan %		Mar %	Apr %	May %	Jun %	Jul %	Aug %	Sep %	Oct %	Nov	Dec %
Well Q	an CEC	70		70	70			<del>70</del>				%	
	ence CFS												
menere	ince CFS	%	%	%	%	%	%	%	%	%	%	%	%
Wall O	or CEC				/0	/0		70	70	70	70		
Well Q													
Interiere	ence CFS	0/		0/	0,	-0/	- 0/			- 2			
	0.00	<u>%</u>	<u>%</u>	%	%	%	_%_	<u>%</u>	%	%	%	%	%
Well Q													
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q													
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS											_	
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfere	ence CFS												
(A) = To	tal Interf.												
<del>`</del>	% Nat. Q												
(C) = 1.9													
(0) - 1 7	o Hat. Q												
(D) = (A	) > (C)			7					7				
$(\mathbf{E}) = (\mathbf{A}$	/ B) x 100	%	%	%	%	%	%	%	%	%	%	%	%

(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.

deferences Used: GW Report #16, by A. R. Leonard, 1970; USGS WSP #841, by A. M. Piper, et al, 1939; local well: nearby reviews.		of potential interference with lakes. Also, there is no WAB data available for this area.
Rights Section.    If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or ground water under this permit can be regulated if it is found to substantially interfere with surface water:		
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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  SW/GW Remarks and Conditions  References Used: GW Report #16, by A. R. Leonard, 1970; USGS WSP #841, by A. M. Piper, et al, 1939; local well	Ь.	
SW / GW Remarks and Conditions  SW / GW Remarks and Conditions  References Used: GW Report #16, by A. R. Leonard, 1970; USGS WSP #841, by A. M. Piper, et al, 1939; local well		under this permit can be regulated if it is found to substantially interfere with surface water:  i.   The permit should contain condition #(s)
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	SV	V / GW Remarks and Conditions
	_	
	_	
	_	
nearby reviews		

Date: February 14, 2012

Application G-17527

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App	licat	ion G- <u>1752</u>	7c	ontinued		Date	: February 14, 2012	
D. <u>\</u>	<u>WEI</u>	LL CONS	TRUCTION,	OAR 690-200				
D1.		Well #:	1	Log	id: <u>HARN 1867</u>			
D2.		a.	view of the well eld inspection by port of CWRE _	log;	struction standards			;
D3.		a.	mmingles water rmits the loss of rmits the de-war	h threat under Divis from more than on artesian head; tering of one or mo	sion 200 rules; ne ground water reserv re ground water reserv	voirs;		
D4.		THE WEL	L construction	deficiency is desc	ribed as follows:			
D5.		THE WEL	L a.		ot constructed accordi		s in effect at the time	e of
			b. 🛚	I don't know if it	met standards at the ti	me of construction	1.	
D6.					mend withholding issu the Enforcement Secti			ell reconstruction
TH	IS S	ECTION	TO BE COM	PLETED BY EN	NFORCEMENT P	ERSONNEL		
D7.		Well consti	uction deficienc	cy has been correcte	ed by the following ac	tions:		
								, 200
		(E	nforcement Sec	tion Signature)				, 200
D8.		Route to V	Water Rights S	ection (attach well	l reconstruction logs	to this page).		

### WATER RESOURCES DEPARTMENT

МЕМО								tob.	nary 1	4_,2	2002
TO: FROM: SUBJECT:		Applio GW: _	(Re Water	viewer's N	527 Zwace ame) terferen	( Lice Eva	luation				
Y 	ES	The so	urce of	appropr	iation is	s within	or abov	re a Scei	nic Wat	erway	
	ES O	Use the	e Scenic	: Water	way con	dition (	Conditio	on 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.											
Jan Fe	eb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

RECEIVED

APR 1 0 1991 JAN 28

(Laterquies ) and satisfact	Id. C minute in all	
(1) OWNER: Well Number: 2967 SA	(9) LOCATION OF WELL by legal description:	
Name Ton & HACKEH SA Address PO. Box 8/2	EM OREGON HARN Latitude Longitude	<u> </u>
	Township 25.5 Nor S. Range 33 E E or V	V, WM.
	Section 36 NE 1/4 SE 1/4	
(2) TYPE OF WORK:	Tax Lot NE Lot SE Block Subdivision	
New Well Deepen Recondition Abandon	Street Address of Well (or nearest address) Hiway 78	
(3) DRILL METHOD		
Rotary Air Rotary Mud Z Cable	(10) STATIC WATER LEVEL:	,
Other	Artesian pressure lb. per square inch. Date	7/91_
(4) PROPOSED USE:	Artesian pressurelb. per square inch. Date	
□ Domestic □ Community □ Industrial ▼ Irrigation	(11) WATER BEARING ZONES:	
☐ Thermal ☐ Injection ☐ Qther	Donah at a bish anatom and Gord Guard	
(5) BORE HOLE CONSTRUCTION:	Depth at which water was first found	
Special Construction approval  Yes No Depth of Completed Well 125 ft.  Yes No Depth of Completed Well 125 ft.	From To Estimated Flow Rate	SWL
Explosives used	24' 25' 10 (Amilians	_
	80' 81' 50 ""	20'
HOLE SEAL Amount  Diameter From To Material From To sacks or pounds	179 175' 800 ""	30'
16" 0 20 BENONITE O 20 2/ SACKS	(10) WELL LOC	
0 /35	(12) WELL LOG: Ground elevation	
2" 20 175 HOTE	Material From To	SWL
	HARD PAN 0 20	,
How was seal placed: Method	BIDE CLAU 20 24	<u> </u>
Other	BROWN SAND WATER 2M 35	20'
Backfill placed fromft. toft. Material	GREY (1AY : 25 80	201
Gravel placed fromft, toft. Size of gravel	Black Sant WATER Shaik 80 81'	201
(6) CASING/LINER:	BIDE CIAO 81' 105'	
Diameter From To Gauge Steel Plastic Welded Threaded Casing: 12" 0 135 14" X	SAND STONE 405 135	
asing: 12"	Coral Rock 135' 170	2 >
	GRAVEL WATER 170 175	30
Liner:		
Final location of shoe(s)		
(7) PERFORATIONS/SCREENS:		
Perforations Method		
Screens Type Material		
Slot Tele/pipe		
From To size Number Diameter size Casing Liner		
		-
	Date started 03/14/91 Completed 03/17/9/	
(8) WELL TESTS: Minimum testing time is 1 hour	(unbonded) Water Well Constructor Certification:	matics -
Flowing	I certify that the work I performed on the construction, alte abandonment of this well is in compliance with Oregon well con	
Pump    Bailer    Air    Artesian	standards. Materials used and information reported above are true t	
Yield gal/min Drawdown Drill stem at Time	knowledge and belief.  WWC Number _	
800 70' 80' 1hr.	Signed Date	
24 1 wellt	(bonded) Water Well Constructor Certification:  I accept responsibility for the construction, alteration, or aba:	ndonment
Temperature of water 571 Logist Depth Artesian Flow Found	work performed on this well during the construction dates reported	above. all
Was a water analysis done?	work performed during this time is in compliance with Or construction standards. This report is frue to the best of my know	egon well dedge and
Did any strata contain water not suitable for intended use?   ☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other	belief. WWC Number 5	
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	Signed Tout Hackett Date 03/17	191
DEDUM DE SCIENCE.	Date Date	

