### Water Right Conditions Tracking Slip

Groundwater/Hydrology Section

or odnowater ring drology Sec. Ligh
FILE ## G-17527
ROUTED TO: Jeana
TOWNSHIP/
RANGE-SECTION: 255/33E-36
REMARKS OR FURTHER INSTRUCTIONS:
Reviewer: Mike Zwert

#### PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

	Wate	r Rights S	Section				Dat	eMarch	14 <u>, 2012</u>			
<b>1</b> :	Grou	nd Water	Hydrology	Section _	Mich	ael Zwart						
ECT:	Appl	ication G-	17527				eview of	Februa				
90-310-1 c, safety a mine who sumption	130 (1) and head ether th criteria	The Depara Ith as descr e presumpt This revi	tment shall pribed in ORS ion is estable ew is based	oresume the 5 537.525. I ished. OAF upon avai	at a proposition of the proposit	sed groundw t staff review 140 allows t rmation and	w ground wat the proposed I agency pol	er applications use be modified icies in place a	under OA d or condi t the time	R 690-3 itioned to	10-140 meet ation.	
							-					
											_ Basin,	
	<u>Harney</u>	Valley			subb	asin Qı	ıad Map:N	ew Princeton				
Propose Well an	ed use: . nd aquif	d aquifer data (attach and number logs f				sonality: ig wells; ma	March 1 to	o October 31 I wells as such	under log	gid):		
Log	id						Location					
HARN 1867		Well #							2250'.N, 1200' E fr NW cor S 36 1156' N, 3566' W fr NE cor S 1*			
Propo	sed	<b>W</b> 7	Basin	Fill Seds.	3.34							
									_			
um, CRB,	Bedrocl	ς									_	
Well Elev ft msl	Water	f 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	
4122	24	30	3/17/91			0-135	None	None	800	70	P	
4112				300	0-20							
from app	lication	for proposed	wells.									
Comme ed as an	ents: <u>*U</u> alterna	Jnusual me tive to usi	etes & bour	ods: Note t	hat NE co posed dee	rner Sec. 1 pening of it	is offset from	n the SE corne sult in sufficien	r Sec. 36. t water.	Well 2	(W7) is	
manage (Not all	ment of basin r	ground wa ules contai	nter hydrauli n such provi	cally conne	ected to sur	face water	are, or 🗵	are not, activ	ated by th	ification a	and/or ation.	
Name o	of admin	istrative ar	ea:									
	Propose Well at 122 4112  Provis manage (Not all Comme	f: Ground ECT: Appl  IC INTERES: 190-310-130 (1) and safety and head remine whether the sumption criterian in the sumption in the sum in t	f: Ground Water/ ECT: Application G-  IC INTEREST PRESU 190-310-130 (1) The Departs, safety and health as descrimine whether the presumpt sumption criteria. This revi  NERAL INFORMATION  Applicant(s) seek(s) 3.3  Harney Valley  Proposed use: Irr  Well and aquifer data (att  Logid Applicant Well #  HARN 1867 W2  Proposed W7  um, CRB, Bedrock  Well First Elev Water ft bls ft bls  4122 24 30  4112  Frowisions of the Malhe management of ground water and a san alternative to using the comments:  Well(s) #	Application G	f: Ground Water/Hydrology Section _ ECT: Application G	f: Ground Water/Hydrology Section Mich Rev St. Application G17527 Su  IC INTEREST PRESUMPTION; GROUNDWATE 190-310-130 (1) The Department shall presume that a propose, safety and health as described in ORS 537.525. Department mine whether the presumption is established. OAR 690-310-sumption criteria. This review is based upon available information of the second	f: Ground Water/Hydrology Section Michael Zwart Reviewer's Name Supersedes re  ICINTEREST PRESUMPTION: GROUNDWATER  190-310-130 (1) The Department shall presume that a proposed groundw, safety and health as described in ORS 537.525. Department staff review mine whether the presumption is established. OAR 690-310-140 allows to sumption criteria. This review is based upon available information and NERAL INFORMATION:  Applicant's Name: Justin and Proposed use: Irrigation, 135 acres Well and aquifer data (attach and number logs for existing wells; maximum and the proposed well # Aquifer* Rate(cfs) (The proposed well # Rate(cfs) (The proposed with the proposed deepening of it with the pro	Intervals   Comments: *Unusual metes & bounds: Note that NE corner Sec. 1 is offset from application for provisions of the Malheur Lake management of groundwater with a selective to management of groundwater with selective to surface water   Supersedes review of    Michael Zwart   Reviewer's Name   Supersedes review of    Reviewer's Name   Supersedes review of    Supersedes review of	Ground Water/Hydrology Section     Michael Zwart   Reviewer's Name   Supersedes review of   Februar   Supersedes review of   Supersedes review of   Februar   Supersedes review of   Supersed	CIT: Application G- 17527 Supersedes review of February 14, 20  Date of R  CINTEREST PRESUMPTION: GROUNDWATER  90-310-130 (1) The Department shall presume that a proposed groundwater use will ensure the preservation and the think as described in ORS 37-323. Department staff review ground water applications under OA mine whether the presumption is established. OAR 690-310-140 allows the proposed use be modified or conditional sumption criteria. This review is based upon available information and agency policies in place at the time NERAL INFORMATION: Applicant's Name: Justin and Stephanie Bowen County:  Applicant(s) seek(s) 3.34 cfs from one well(s) in the Malheur Lake Subbasin Quad Map: New Princeton  Proposed use: Irrigation, 135 acres Seasonality: March 1 to October 31  Well and aquifer data (attach and number logs for existing wells; mark proposed wells as such under log Well # Aquifer* Rate(cfs) (TR-S QQ-Q) 2250 N, 1200 E  HARN 1867 W2 Basin Fill Seds. 3.34 25S/33E-36 NS-SE 1156 N, 3566 W  Proposed W7 Basin Fill Seds. 3.34 25S/33E-36 NE-SW 1330 N, 5280 V  Jum, CRB, Bedrock  Well First SWL SWL Depth Interval Intervals Intervals Or Screens Yield fills fills bls fills bls Date (ft) (ft) (ft) (ft) (ft) (gpm)  from application for proposed wells.  Comments: **Unusual metes & Dounds: Note that NE corner Sec. 1 is offset from the SE corner Sec. 36 et as an alternative to using Well 1 solely if proposed depening of it does not result in sufficient water.  Provisions of the Malheur Lake Basin rules relative to the development, class management of ground water hydraulically connected to surface water	The first series and bound and applicant's Proposed Section Substantial and squifer data (attach and number logs for existing wells; mark proposed wells.    Comments: Walter Start	

<u>GROU</u>	ND WATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130, 400-010, 410-0070											
Ba	Based 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.	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)											
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 Groun 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):											
gr	ound water availability remarks: There is some local concern about the potential for overdevelopment of the oundwater resource in the area near Crane, approximately five miles to the north. Region Manager Ivan Gall commends use of Condition 7N for permits in this basin.											
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continued

Date: March 14, 2012

Application G-17527

ication G-	<u>17527</u>	continued			Ι	Date: March 14	4, 2012	
ROUNI	) WA	TER/SURFACE WATER CO	ONSIDER <i>A</i>	ATIONS.	OAR 690-	09-040		
		Evaluation of aquifer confinement		,				
Well		Aquifer or Proposed		_		Confined		Jnconfined
1, 2	Inter	bedded sand, gravel and clay, li			ì			
								<del></del>
		fer confinement evaluation: <u>The was first encountered in the bord</u>		ter level fo	r most wells	in this area	is similar to	the depth t
690-09-0 horizon	40 (2)		d hydraulic o	connection urce that p	with, surface	e water source from an unco	s. All wells	located a
690-09-0 horizon assume	40 (2)	(3): Evaluation of distance to, an tance less than ¼ mile from a surface hydraulically connected to the su	d hydraulic o	connection urce that p	with, surface	e water source from an unco able any strear Hydrau Conne	s. All wells nfined aquif ns located b	located a

Basis for aquifer hydraulic connection evaluation: *Both the surface water elevation and distance to the well will vary
as the lake level changes. It is likely that the aquifer penetrated ultimately discharges to Malheur Lake.
Water Availability Basin the well(s) are located within: 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?
					_					
	1									

Version: 08/15/2003

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 a	ipply.		 

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												
	outed Well						_			_			_
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	<u>%</u>	%	%
Well Q													
Interfere	ence CFS												
		%	%	%	%	%	%	%%	%	%	%	%	%
Well Q													
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q													
Interfere	ence CFS												
		- %	%	%	<b>%</b>	%	%	%	%	- %	%	%	- %
Well Q	as CFS												
Interfere	ence CFS												
		%	%	%	- %	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfere	ence CFS												_
		-%	%	%	%	%	%	- %	%	%	%	%	%
Well Q	as CFS												
Interfere	ence CFS												
(A) = To	tal Interf.												
<u> </u>	% Nat. Q		_										
	% Nat. Q												
(D) = (A		9/	·/	%	9/	y	<u>√</u>	v′	√′ 0/	√.	97	,,	·/
$(\mathbf{E}) = (\mathbf{A}$	/B) x 100	%	%	<u></u> %	%	%	%	%	%	%	%	%	%

(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.

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. 6	690-09-040 (5) (b) The potential to impair or detrimentally affect the public interest is to be determined by Rights Section.	the V
	If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or ground under this permit can be regulated if it is found to substantially interfere with surface water:  i.   The permit should contain condition #(s)	wate
	ii. The permit should contain special condition(s) as indicated in "Remarks" below;	
SW	/ GW Remarks and Conditions	
	<del></del>	
	<del></del>	
	<del></del>	
	<del></del>	
Refe	erences Used: GW Report #16, by A. R. Leonard, 1970; USGS WSP #841, by A. M. Piper, et al, 1939; local	well
near	by reviews	
		_

Date: March 14, 2012

Application G-17527

\_continued

	Well #:1 Logid:HARN 1867
D2.	THE WELL does not meet current well construction standards based upon:  a.  review of the well log;  b.  field inspection by report of CWRE  d. other: (specify)
03.	THE WELL construction deficiency:  a.   constitutes a health threat under Division 200 rules;  b.   commingles water from more than one ground water reservoir;  c.   permits the loss of artesian head;  d.   permits the de-watering of one or more ground water reservoirs;  e.   other: (specify)
<b>D4</b> .	THE WELL construction deficiency is described as follows:
<b>D</b> 5.	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. \( \square\) I don't know if it met standards at the time of construction.
D6. [	Route to the Enforcement Section. I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Department and approved by the Enforcement Section and the Ground Water Section.
ГHIS	SECTION TO BE COMPLETED BY ENFORCEMENT PERSONNEL
D7. [	Well construction deficiency has been corrected by the following actions:
	. 200

Date: March 14, 2012

Application G-17527

\_continued



#### INTEROFFICE MEMORANDUM

TO: Ivan Gall

FROM: Jeana Eastman, Water Rights Section

DATE: 3/13/12

RE: G-17527, Bowen - application revised - added Well 7 - please review

On 3/12/12 the applicant added an additional well, Well 7, to the application and paid \$250 for the add'l POA. Please complete a Div 9 review for Well 7.

Mike Zwart completed the first Div 9 review.

Thanks.

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#### SECTION 3: WELL DEVELOPMENT, CONTINUED

JAN 26 2012

		,		own:	(eac	SALEM, OREGON  (each well will be evaluated at the maximum rate unless you indicate well-specific rates and annual volumes in the table										
	below).		14,01	question	eren (pene)					,						
$\mathcal{C}_{\mathcal{R}}$	Complete <u>in additio</u> right exan	<u>110</u> C	hic be omplet	low. If this is ing the table.)	an exis - If thi	sting well, t s is a propo	he following sed well, or	information m well-modificat	ay be found ion, conside	on the application on the application of the applic	able well log. (If a well lith a licensed well drille	r, geolog	gist, or cer	ease submit tified water	it ¬	
4	and the second s		1	WFLL ID	1				T	I	PRO	POSED (	J <b>SE</b>	· ·	-	
	OWNER'S WFLL NAME OR NO	PROPOSED	EXISTING	(WELL TAG) NO * OR WELL LOG	FLOWING ARTESIAN	CASING DIAMETER	CASING INTERVALS (IN PEET)	PERFORATED OR SCREENED INTERVALS (IN FEE 1)	SEAL INTERVALS (IN PEET)	MOST RECENT STATIC WATER LEVEL & DATE (IN FEET)	SOURCE AQUIFER***	TOTAL WELL DEPTH	WELL- SPECIFIC RATE (GPM)	ANNUAL VOLUME (ACRE-FEET)		
arn 1867	w2		7	Harn 1867		12"	20'	Ø	20'	31' 4/11/11	gravel   Bedrock	350'	Max 1500	3AF		
	W7	I				12"	20'	Ø	20'	, ,	gravel   Bedrock gravel   Bedrock	300'	Max 1100	3AF		
				gar under the continues of the continue of the							,				]	
	teade constitue first Thingside in Millered according the confidence					ngga garakendardarikhildiri dib. Uzda 21 - 1	The second of the second of the second								1	
													RE	EVE		
				and the second s									MAR	1 2 2012	1	
				a a colinario dell'anno con					de la comingia que vien men de la deserva de la comingia que vien de la comingia del comingia de la comingia de la comingia del comingia de la comingia del comingia de la comingia del comingia de la comingia de la comingia del comin			1		BEETHUES ACCESSON		
	paja yangan da dar sakir da maja ay nama a					A 100 M 100	No control of the con							7-16-614		

Revised 3/4/2010

Ground Water/5

WR

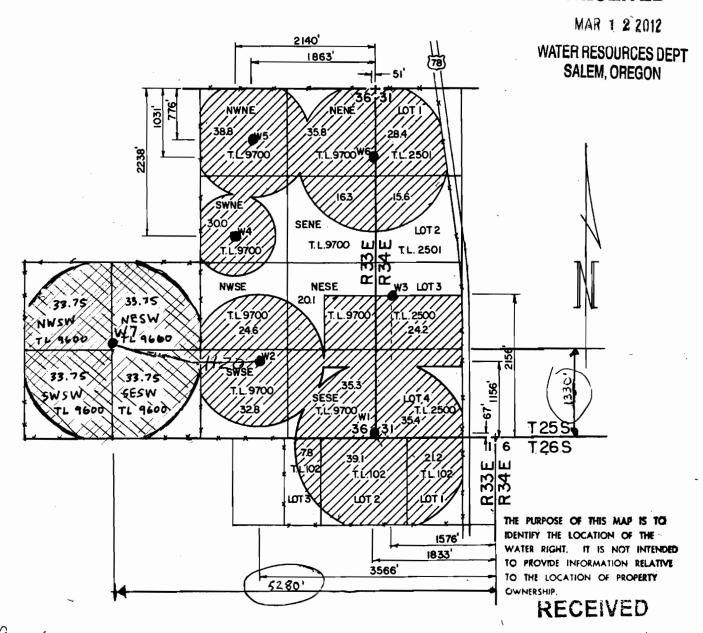
Licensed drillers are required to attach a Department-supplied Well Tag, with a unique Well ID or Well Tag Number to all new or newly altered wells. Landowners can request a Well ID for existing wells that do not have one. The Well ID is intended to serve as a unique identification number for each well.

<sup>\*\*</sup> A well log ID (e.g. MARI 1234) is assigned by the Department to each log in the agency's well log database. A separate well log is required for each subsequent alteration of the well.

<sup>\*\*\*</sup> Source aquifer examples: Troutdate Formation, gravel and sand, altuvium, basalt, bedrock, etc.

# T 25 S, R 33 E; T 25 S, R 34 E; T 26 S, R 33 E; WM

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G-16207 app no. MAR 1 1 2004 ROBERT CARGILL, SR. WATER RESOURCES DEF SALEM OREGON WATER RIGHT APPLICATION MAP 4"= | MILE 02-06-2002 1997-02 Job: Scale: Date: M.A. PALMER & SONS, INC. Sht. No. Dsn: ENGINEERING & SURVEYING RENEW 1-1-2003 Dm: CHRIS 711 Ponderosa Village • Box 61 Burns, Oregon 97720 of Ckd:

1120

Proposed Water Rights

Exststing Water Rights

• W7 Proposed Well Site

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MAR 1 2 2012

WATER RESOURCES DEPT SALEM, OREGON

number ) New Distance Measurements

we would like to have the option of having a second well (well 7 w7) as an alternative to deepening WI it sufficient water is needed. Enclosed is \$250 for another point of appropriation (W7). If more information is needed please feel free to call (541) 219.1756 or email excelsion hay a gmail. com

Thankyou!

Clavification: We do not intend to irrigate the ground using both wells. We will choose between the two plans in the upcoming months.

Justin Bowen



## 25 S, R 33 E; T 25 S, R 34 E; T 26 S, R 33 E; WM

