Water Right Conditions Tracking Slip

	•
FILE ##	-17061
	later Rights
TOWNSHIP/ RANGE-SECTION:	23/226-18
RANGE-SECTION:	
CONDITIONS ATTACH	RED? [Myes [] no

REMARKS OR FURTHER INSTRUCTIONS:

Reviewer: Mike Zwart

PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:	O: Water Rights Section							Date	Septemb	er 5, 20	08		
FROM	:	Groun	d Water/F	Hydrology	Section _								
SUBJE	CT:	Applic	ation G-	17061			Reviewer's Name Supersedes review of Date of Review(s)						
OAR 69 welfare, to deter	90-310-1 safety armine whe	30 (1) The nd health ether the	ne Departi n as descri presumpti	nent shall p bed in ORS on is establ	oresume than 5 537.525. I ished. OAR	Department : 690-310-1	d groundwo staff review 40 allows th	ground water ne proposed u	ensure the prese r applications u se be modified	or condi	R 690-31 tioned to	0-140 meet	
•	•				b. El.				cies in place at	the time	of evalu	ation.	
A. GEN	ERAL II	NFORM	ATION: A	Applicant's	s Name:	Don Nienk	e		County:	Harney	- 10		
A1.	Applica	nt(s) see	k(s) _ 3.57	cfscfs	from 2_v	vell(s) in the						_ Basin,	
	1	<u>Malheur</u>	SI			subb	asin Qu	ad Map: <u>Ca</u>	rson Point	- 87-35			
A2. A3.								March 1 – C	October 31 wells as such t	ınder log	id):		
Well	Log	id	Applicant'	S Propos	sed Aquifer*	Proposed		Location		n, metes a			
1	Propo	sed	Well #		sin Fill	Rate(cfs)		/R-S QQ-Q) 3 E-18 SW-SW		I, 1200' E I, 3940' W			
3	Propo	sed	2	Ba	sin Fill	3.57	235/.	33E-18 SE-SE	1300'N	, 1300' W	fr SE con	r S 18	
4					A The		4111111						
* Alluviu	ım, CRB,	Bedrock	16.75	100	Central Aligne						_		
Well	Well Elev ft msl	First Water ft bls	SWL ft bls	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	
2	4125 4125				300	0-20							
											_		
Use data	from appl	ication fo	r proposed	wells.									
A4.	Comme	ents:											
A5. ⊠	manage (Not all	ment of g basin ru	les contair	ter hydraul such prov	ically conne isions.)	ected to surf	ace water [are, or 🛛	the developme are not, active	ited by th	is applica	ation.	
A6. 🗌	Name o	f admini	strative are	ea:					r limited by an				

Applica	ation:	: G- <u>17061</u> continued	Date: September 5, 2008	2
в. <u>GR</u>	OUN	ND WATER AVAILABILITY CONSIDERATIONS, OAR 6	90-310-130, 400-010, 410-0070	
B1.	Bas	sed upon available data, I have determined that ground water* for the	proposed use:	
	a.	is over appropriated, ☐ is not over appropriated, or ☒ cannot period of the proposed use. * This finding is limited to the groundetermination as prescribed in OAR 690-310-130;	be determined to be over appropriated during an ad water portion of the over-appropriation	у
	b.	will not or will likely be available in the amounts requested v is limited to the ground water portion of the injury determination		,
	c.	☐ will not or ☐ will likely to be available within the capacity of the	he ground water resource; or	
	d.	 will, if properly conditioned, avoid injury to existing ground water. i. The permit should contain condition #(s) 7N ii. The permit should be conditioned as indicated in item 2 iii. The permit should contain special condition(s) as indicated 	below.	_;
B2.	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 t	han ft. below land surface;	
	c.	Condition to allow ground water production only from the water reservoir between approximately ft. and	ground ft. below land surface;	
	d.	■ Well reconstruction is necessary to accomplish one or more of the occur with this use and without reconstructing are cited below. We issuance of the permit until evidence of well reconstruction is file Water Section.	/ithout reconstruction, I recommend withholding	
		Describe injury —as related to water availability— that is likely to o senior water rights, not within the capacity of the resource, etc):		
				_
				_
B3.		round water availability remarks: <u>The ground-water level trend a</u> matic influences. Region Manager Ivan Gall recommends use of co		
				_
	_			_
				_
				_
				_
	_			_
				_

		Dubin IIII			vs of GW Rep	Joit #10)		- 1				
2	+		Bas	sin-fill sedi	nents			+	- 53			_
								H	-			_
	_							H		11 (4 . 5 . 5 . 5	- 1	
				Statistical Control						T 12 10		
					Ground water g Malheur an			ionall	y unco	ntined and I	iydrauli	cally
horizon assume	ntal dis	tance less t	than ¼ mi ally conne	le from a sur	and hydraulic conface water sourface water s	irce that pi	roduce water	from a	an unco	onfined aquif ms located b	er shall b	e m
Well	#	S	urface Wat	ter Name	Elev ft msl	Elev ft msl	(ft)	YES	NO NO	ected? ASSUMED		ume
1	1	Unn	trib Malh	eur Slough	4100±	4124	30					
2	1		trib Malh	eur Slough	4100±	4124	1900		\boxtimes			
1	2		Malheur S		4100±	4122	1800		\boxtimes			
	2		Malheur	Slough	4100±	4122	3200		X			_
2_								- H	+		<u> </u>	-
2								H	+	H	- H	
2		_										
2								H	H		片	
Basis fo	<u>and/or</u>	Malheur	Lake. M	ection evalu alheur Slou January 15	ation: <u>Groungh is dry in n</u>	and water	likely is disc and therefo	chargi ore is n	ng to l	ower reache	s of Mal	heu 9
Basis for Blough reviews Water AMALH 90-09-connecture pertihe required	Availal EUR L 040 (4) ed and nent to ested ra	bility Basin AKE BAS): Evaluat I less than o that surfact ate against	n the well SIN ion of stree 1 mile fro ce water se the 1% of	January 15 I(s) are loca eam impacts om a surface ource, and n f 80% nature	gh is dry in n	B1200107 that has be Limit eval ources to vertinent	MALHEUR en determine uation to inst which the stre Water Availa	steam unability d to ha	MALH ssumed rights a ider even Basin (IEUR L- AE to be hydra and minimum aluation is tr	NINEM ulically stream f butary. C is not di cause PS	llulland low Community Subtent
Basis fo Blough reviews Water A MALH 90-09- connect ire perti-	Availal EUR L 040 (4 ed and inent to ested rause ful	bility Basinake BAS Evaluate less than that surfact against ll rate for e	n the well SIN ion of stre 1 mile fro ce water so the 1% of ach well.	January 15 I(s) are loca eam impacts om a surface ource, and n f 80% nature Any checked Instream Water Right	ted within: 3 for each well to water source, ot lower SW sal flow for the dimensional box indices and the sal water Right Q	that has be Limit eval ources to we pertinent wates the week Qw > 1%	en determine uation to instwhich the stre Water Availa ell is assumed 80% Natural Flow	steam unability d to ha	MALH ssumed rights a der eve Basin (ve the > 1% 80% attural	to be hydra and minimum aluation is tri WAB). If Q potential to continue and minimum aluation is tri WAB and minimum aluation is tri WAB and	NINEM ulically stream f butary. C is not di cause PS	IIL) flow Com strib
Basis fo Blough reviews Water A MALH 90-09- connect ire perti-	Availal EUR L 040 (4 ed and inent to ested rause ful	bility Basinake BAS Evaluate less than that surfact against ll rate for e	n the well SIN ion of stre 1 mile fro ce water so the 1% of ach well.	January 15 I(s) are loca eam impacts om a surface ource, and n f 80% nature Any checked Instream Water Right	ted within: 3 for each well to water source, ot lower SW sal flow for the dimensional box indices and the sal water Right Q	that has be Limit eval ources to we pertinent ates the we I% ISWR?	en determine uation to instwhich the stre Water Availa ell is assumed 80% Natural Flow	steam unability d to ha	MALH ssumed rights a der eve Basin (ve the > 1% 80% attural	to be hydra and minimum aluation is tri WAB). If Q potential to continue and minimum aluation is tri WAB and minimum aluation is tri WAB and	NINEM ulically stream f butary. C is not di cause PS	llulland low Community Subtent
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Basis fo Blough reviews Water A MALH 90-09- connect ire perti-	Availal EUR L 040 (4 ed and inent to ested rause ful	bility Basinake BAS Evaluate less than that surfact against ll rate for e	n the well SIN ion of stre 1 mile fro ce water so the 1% of ach well.	January 15 I(s) are loca eam impacts om a surface ource, and n f 80% nature Any checked Instream Water Right	ted within: 3 for each well to water source, ot lower SW sal flow for the dimensional box indices and the sal water Right Q	chat has be Limit eval ources to v pertinent v ates the w	en determine uation to instwhich the stre Water Availa ell is assumed 80% Natural Flow	steed or astream unability d to ha	MALH ssumed rights a der eve Basin (ve the > 1% 80% attural	to be hydra and minimum aluation is tri WAB). If Q potential to continue and minimum aluation is tri WAB and minimum aluation is tri WAB and	NINEM ulically stream f butary. C is not di cause PS	llulland low Community Subtent

Application: G- 17061 continued

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

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

Aquifer or Proposed Aquifer

Date: September 5, 2008

Confined

3

Unconfined

Date: September 5, 2008

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

Evaluati		1	Instream	Instream		80%	Qw > 1%		Potential
	sw	Qw>	Water	Water	Qw>	Natural	of 80%	Interference	for Subst.
1	#	5 cfs?	Right	Right Q	1%	Flow	Natural	@ 30 days	Interfer.
			ID	(cfs)	ISWR?	(cfs)	Flow?	(%)	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.

Well	stributed W SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
*****		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS			- ,,									
	ence CFS												
merer	chec et b												
Distrib	uted Wells												
Well	SW#_	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q													
Interfere	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												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
(A) - T	otal Interf.												
	% Nat. Q												
`	% Nat. Q				_								
(0)-1	70 Mar. Q						-		4.15				
$(\mathbf{D}) = (A$	A) > (C)								1	1			
(E) = (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.

lication: G- 17061 continued	Date: September 5, 2008
Basis for impact evaluation:	
690-09-040 (5) (b) The potential to impair or detrimentall Rights Section.	y affect the public interest is to be determined by the Wa
If properly conditioned, the surface water source(s) can be adunder this permit can be regulated if it is found to substantially i. The permit should contain condition #(s)	lequately protected from interference, and/or ground water uninterfere with surface water:
 i. The permit should contain condition #(s) ii. The permit should contain special condition(s) as 	indicated in "Remarks" helow:
ii. The permit should contain special condition(s) as	indicated in Remarks below,
SW / GW Remarks and Conditions:	
	FOR BUILDING TO THE PARTY OF TH
References Used: <u>Local well logs; local recent reviews, especi</u> 1970; Greene, Walker, and Corcoran, 1972, Geologic Map of t Geologic Investigations Map I-680; Memo by Ivan Gall, 1/15, 2	the Burns Quadrangle, Oregon, USGS Miscellaneous
Malheur Lakes Basin.	

App	lication: G-	17061 continued	Date: September 5, 2008	6
D. <u>Y</u>	WELL CO	NSTRUCTION, OAR 690-200		
DI.	Well #:	Logid:		_
D2.	a.	VELL does not meet current well construction standards review of the well log; field inspection by report of CWRE other: (specify)	·	_; _;
D3.	a.	VELL construction deficiency: constitutes a health threat under Division 200 rules; commingles water from more than one ground water reserv permits the loss of artesian head; permits the de-watering of one or more ground water reserv other: (specify)	voirs;	
D4.	THE W	VELL construction deficiency is described as follows:		
				_
				_
D5.	THE W	VELL a. □ was, or □ was not constructed according original construction or most recent most		
		b. I don't know if it met standards at the ti	me of construction.	
D6.		to the Enforcement Section. I recommend withholding issu with the Department and approved by the Enforcement Section.	nance of the permit until evidence of well reconstruction	l
TH	IS SECTIO	ON TO BE COMPLETED BY ENFORCEMENT P.	ERSONNEL	_
		onstruction deficiency has been corrected by the following ac		
				_
				_
				_
			, 200	
		(Enforcement Section Signature)		
D8.	☐ Route	to Water Rights Section (attach well reconstruction logs	to this page).	
				_

Application:	G-	17061	continued
application.	J	17001	commuca

Date: September 5, 2008

Detailed Reports

MALHEUR SL> MALHEUR L- AB NINEMILE SL MALHEUR LAKE BASIN

Water Availability as of 8/27/2008

Watershed ID #: 31200107

Exceedance Level:

Date: 8/27/2008

Time: 9:41 PM

Water Availability Calculation Consumptive Uses and Storages Water Rights

Instream Requirements

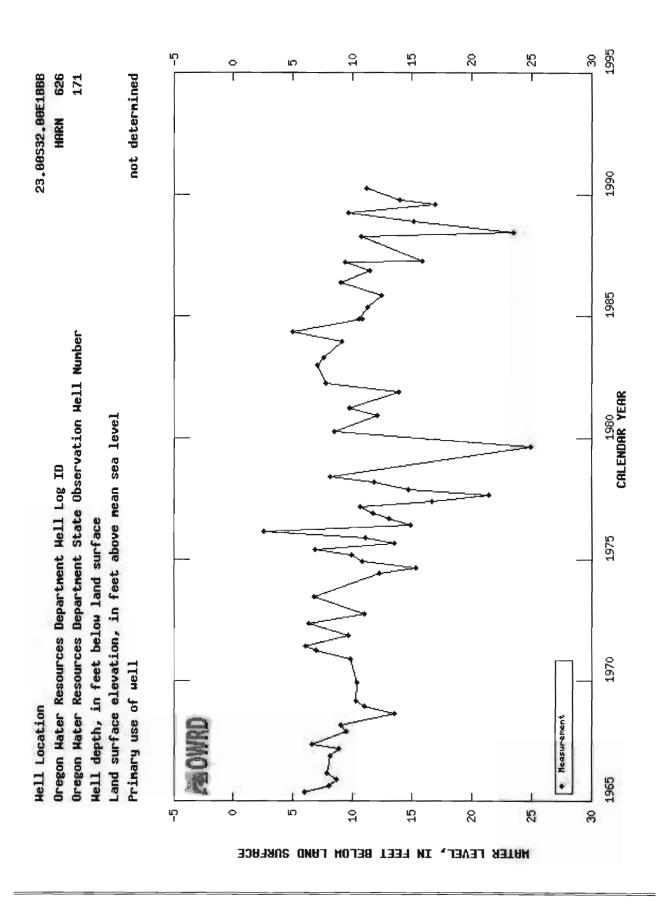
Reservations

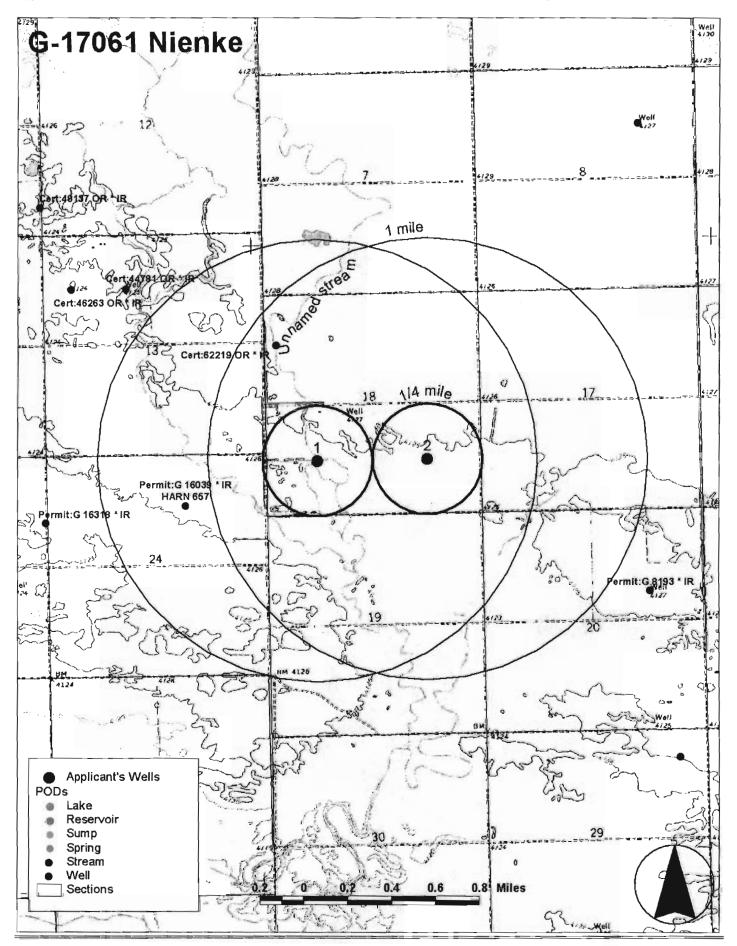
Watershed Characteristics

Water Availability Calculation

Monthly Streamflows in Cubic Feet per Second Storage at 50% Exceedance in Acre-Feet

Month	Natural Stream Flow	Consumptive Use and Storage	Expected Stream Flow	Reserved Stream Flow	Instream Requirement	Net W <u>ater</u> Available
Jan	1.10	0.29	0.82	0.00	0.00	0.82
Feb	3.72	1.10	2.62	0.00	0.00	2.62
Mar	10.90	3.93	6.97	0.00	0.00	6.97
Apr	14.00	11.10	2.85	0.00	0.00	2.85
May	9.83	24.60	-14.80	0.00	0.00	-14.80
Jun	5.80	20.00	-14.20	0.00	0.00	-14.20
Jul	1.18	7.73	-6.55	0.00	0.00	-6.55
Aug	0.41	3.68	-3.27	0.00	0.00	-3.27
Sep	0.24	2.11	-1.87	0.00	0.00	-1.87
Oct	0.20	0.87	-0.67	0.00	0.00	-0.67
Nov	0.38	0.06	0.32	0.00	0.00	0.32
Dec	0.75	0.16	0.59	0.00	0.00	0.59
Storage Acre-Feet at 50%	7,670.00	4,580.00	4,910.00	0.00	0.00	4,910.00





WATER RESOURCES DEPARTMENT September 5,200 8 **MEMO** Application G-17061 TO: FROM: SUBJECT: Scenic Waterway Interference Evaluation YES The source of appropriation is within or above a Scenic Waterway NO YES Use the Scenic Waterway condition (Condition 7J) NO 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 Waterway by the following amounts expressed as a proportion of the consumptive use by which surface water flow is reduced. Jan Feb Mar Jun Jul Aug Apr May Sep Oct Nov Dec