Water Right Conditions Tracking Slip

Groundwater/Hydrology Section FILE ## G-17452

ROUTED TO: Water Rights

TOWNSHIP/
RANGE-SECTION: 265/30 E - 3+4
255/30 E - 33

CONDITIONS ATTACHED? Lyes [] no REMARKS OR FURTHER INSTRUCTIONS:

Reviewer: Mike Zwart

WATER RESOURCES DEPARTMENT March 24, 2001 **MEMO** Application G- 17457 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) 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	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		1									

PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:		Wate	r Rights S	Section				Dat	e March 2	24, 20 <u>11</u>		·—
FROM	1 :	Grou	nd Water/	Hydrology	Section_	Mich	ael Zwart					
SUBJI		Appli	ication G-	17452		Revi Su	iewer's Name persedes re	eview of	N/A	Date of Re	view(s)	
oar 6 welfare to deter	590-310-1 c, safety at rmine whe	30 (1) and heal ether the	The Depart th as descr e presumpt	<i>ibed in ORS</i> ion is establ	presume that 537.525. I ished. OAR	at a propos Department 3 690-310-	ed ground t staff review 140 allows	w ground wat the proposed	ensure the presser applications use be modified icies in place at	ander OA l or condi	R 690-31	10-140 meet
A. <u>GE</u>	NERAL	INFO	RMATIC	<u>ON</u> : A	pplicant's l	Name:Rat	tlesnake C	reek Land	& Cattle Co	unty: H	arney	
A1.	Applica	nt(s) se	ek(s) <u>7.2</u>	64_ cfs from	m <u>five</u>	well((s) in the					_ Basin,
A2. A3.	Propose Well an	ed use:	Irr er data (att	igation, 434	.62 ac. (P)	Seas	onality:	March 1 to	ortheast/North October 31 wells as such i			<u></u>
Well	Logi		Applicant Well #	's Pro	Proposed Aquifer*		Proposed Location Rate(cfs) (T/R-S QQ-Q)		Location	Location, metes and bounds, e.g 2250' N, 1200' E fr NW cor S 36		
1	HARN 5		9	Basalt	/Vol. Seds	7.264	7.264 25S/30E		W 1075' N	' N, 2685' W fr SE cor S 33		
3	HARN 5		15 16		c. Seds /Vol. Seds			30E-4 NE-N 30E-33 SE-S		1145' S, 2760' W fr NE cor S 4 845' N, 2765' W fr SE cor S 33		
4	HARN 5	$\overline{}$	18		/Vol. Seds	7.264		30E-33 SE-S 30E-3 NW-N		1060' S, 415' E fr NW cor S 3		
5	HARN 5	$\overline{}$	21		/Vol. Seds		7.264 26S/30E-3 NW-NW 1055' S, 335' E fr NW cor S 3					
* Alluvi	um, CRB,	Bedrock							•			
	Wall	First			XX7 11	C 1	<u> </u>	T :		W/-11	D	
Well	Well Elev	First Water	SWL	SWL	Well Depth	Seal Interval	Casing Intervals	Liner Intervals	Perforations Or Screens	Well Yield	Draw Down	Test
""	ft msl	ft bls	ft bls	Date	(ft)	(ft)	(ft)	(ft)	(ft)	(gpm)	(ft)	Type
1	4148	117	74	1/18/05	125	0-105	0-105	None	None	1000	51	Air
2	4158	140	92	2/10/08	280	0-35	0-59	None	None	1000	190	P
3	4151	107	86	5/2/08	200	020	0-92	None	None	4000	10	P
4	4165	104	104	1/21/11	195	0-24	0-102	None	None	2800	5	P
5	4165	104_	104	2/11/11	167	0-18	0-60	None	None	2800_	2	P
A4.	Comme	ents: <u>W</u>		2 were auth					. This permit i			
										:		
A5. 🛚	manager (Not all	ment of basin r	ground was	iter hydrauli n such provi	cally conne sions.)	cted to sur	face water	ules relative t ☐ are, or ⊠	o the developmed are not, activation	ent, classinted by th	fication a	and/or ation.
A6. 🗌	Name of	f admin	istrative ar	, ea:,					er limited by an	administ	rative res	triction.

ROUI	ND WATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130, 4	100-010, 410-0070
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 be determined period of the proposed use. * This finding is limited to the ground water portion determination as prescribed in OAR 690-310-130;	to be over appropriated during any n of the over-appropriation
b.	will not or will likely be available in the amounts requested without injury t is limited to the ground water portion of the injury determination as pres	o prior water rights. * This finding scribed in OAR 690-310-130;
c.	will not or will likely to be available within the capacity of the ground water	er resource; or
d.	will, if properly conditioned, avoid injury to existing ground water rights or to 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
	Condition to allow ground water production only from the water reservoir between approximately ft. and ft. belo	w land surface;
	senior water rights, not within the capacity of the resource, etc):	
Co	ound water availability remarks: <u>Eastern Region Manager Ivan Gall currently</u> ndition 7N in the Harney Basin. Due to the increased development of groundwatestern Region is proposing to implement a local network of wells to be measured o	ter in this part of the basin, the
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Date: March 24, 2011

____continued

Application G-17452

0-09-0 Well	40 (1):	Evaluation of aquifer confineme			·			
All	Late	Aquifer or Proposed Tertiary to Quaternary basalt tentary rocks		clastic		Confined		Unconfined
horizor		(3): Evaluation of distance to, ar		arce that n	roduce water			fer shall be
assume	ntal dist ed to be	ance less than ¼ mile from a surf hydraulically connected to the su ted for PSI.	ace water so			from an unco	nfined aquif	eyond one r
assume	ntal dist ed to be	ance less than ¼ mile from a surf hydraulically connected to the su	ace water so			from an unco	nfined aquif ns located b lically cted?	Potentia Subst. In Assum
assume that are	ntal distred to be evalua	ance less than ¼ mile from a surf hydraulically connected to the su ted for PSI.	GW Elev	SW Elev	lude in this ta	from an unco able any stream Hydrau Conne	nfined aquif ns located b lically cted?	Potentia Subst. In
assume that are Well	ntal dist ed to be e evalua SW #	ance less than ¼ mile from a surf hydraulically connected to the su ted for PSI. Surface Water Name	GW Elev ft msl	SW Elev ft msl	Distance (ft)	from an uncoable any stream Hydrau Conne YES NO A	nfined aquif ns located b lically cted?	Potentia Subst. In Assum
assume that are Well	ntal dist ed to be e evalua SW #	ance less than ¼ mile from a surf hydraulically connected to the su ted for PSI. Surface Water Name	GW Elev ft msl	SW Elev ft msl	Distance (ft)	from an uncoable any stream Hydrau Conne YES NO A	nfined aquif ns located b lically cted?	Potentia Subst. In Assum
assume that are Well	ntal dist ed to be e evalua SW #	ance less than ¼ mile from a surf hydraulically connected to the su ted for PSI. Surface Water Name	GW Elev ft msl	SW Elev ft msl	Distance (ft)	from an uncoable any stream Hydrau Conne YES NO A	nfined aquif ns located b lically cted?	Potentia Subst. In Assum
assume that are Well	ntal dist ed to be e evalua SW #	ance less than ¼ mile from a surf hydraulically connected to the su ted for PSI. Surface Water Name	GW Elev ft msl	SW Elev ft msl	Distance (ft)	from an uncoable any stream Hydrau Conne YES NO A	nfined aquif ns located b lically cted?	Potentia Subst. In Assum

by well, use full rate for each well. Any checked 🗵 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?
							,			
										mion: 09/15/2002

Version: 08/15/2003

Date: March 24, 2011

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.

#	5 cf	> Wate s? Righ ID	 1% ISWR?	Natural Flow (cfs)	of 80% Natural Flow?	@ 30 days (%)	for Subst. Interfer. Assumed?
,							

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	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%.	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS			_								_	
	ence CFS												
Distrib	uted Well:	<u> </u>											_
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	. %
Well Q	as CFS												
	ence CFS		-										
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfere	ence CFS												
(A) = To	tal Interf.												-
(B) = 80	% Nat. Q												
$(C) = I^{\circ}$	% Nat. Q												_
(D) = (A) > (C)	✓	1	√	√.	V.	√	√	√	√	√	✓	1
	/ 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.

Basis for impact evaluation: This section likely applies, but since the potential interference is likely diffuse and the intervening geology is somewhat complex, I believe it is inappropriate to attempt calculation of the potential

]	under this p	ermit can b The permi	e regulated if t should conta	it is found t	o substantia ı #(s)	ally interfere w	ith surface wat	ter:	d/or ground wate
	ii.	The permi	t should conta	in special co	ondition(s)	as indicated ir	"Remarks" be	elow;	
w	/ GW Rem	arks and C	onditions						
w / 	/ GW Rem:	arks and C	onditions						
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_									
									
_									

Date: March 24, 2011

Application G-17452 continued

App	ication G-17452continued Date: March 24, 2011	
D. <u>V</u>	VELL CONSTRUCTION, OAR 690-200	
D1.	Well #: Logid:	
D2.	THE WELL does not meet current well construction standards based upon: a. review of the well log; b. field inspection by	; ;
D3.	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)	
D4.	THE WELL construction 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.	Route to the Enforcement Section. I recommend withholding issuance of the permit until evidence of well is filed with the Department and approved by the Enforcement Section and the Ground Water Section.	reconstruction
TH	S SECTION TO BE COMPLETED BY ENFORCEMENT PERSONNEL	
D7.	☐ Well construction deficiency has been corrected by the following actions:	
		, 200
	(Enforcement Section Signature)	
D8.	☐ Route to Water Rights Section (attach well reconstruction logs to this page).	

